# SET ENVIRONMENTAL, INC.

HOUSTON FACILITY SITE PROFILE

## SET ENVIRONMENTAL, INC. SITE PROFILE

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Revised - April 2021

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- D. Safety Equipment and OSHA 300A Logs
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- H. Waste Profile Forms
- I. Notification for Waste Restricted from Land Disposal (LDR)
- J. Waste Scheduling Notification Form

# SET ENVIRONMENTAL, INC.

# SITE PROFILE

# I. GENERAL INFORMATION

NAME:	SET Environmental, Inc.
MAILING ADDRESS:	5738 Cheswood Houston, Texas 77087
FACILITY ADDRESS:	5743 Cheswood Houston, Texas 77087
TELEPHONE:	(800) 598-7328 or (713) 645-8710
FAX:	(713) 649-1027
CONTACTS:	Dave DeVries CEO
	Joel Tameling President
	Walter C. Kilgus Facility General Manager
	Scott Skoog Facility Engineer
	Daniel A. Didier Compliance Director
	James Vasquez Safety Manager
	Pamela Page Nowlin General Manager-Houston Field Services/Sales Manager
OFFICE HOURS:	8:00 a.m. to 5:00 p.m. (Weekdays)
RECEIVING HOURS:	8:00 a.m. to 4:00 p.m. (Weekdays)

# **II. SITE DESCRIPTION**

# LAYOUT

The facility is situated on a one (1) acre site and has three (3) permitted storage buildings (a map of the facility is included as Exhibit A):

- 1. Warehouse used for various types of hazardous waste storage, drum cleaning, waste compaction and metal drum compaction. This storage building has a concrete base that is coated with an epoxy sealant. To prevent run-on, run-off and accumulation of rainwater this building is roofed, has walls and is surrounded by a six-inch high concrete curb. Six-inch high concrete curbs within the containment area are used to separate incompatible material. Each separate storage area has the capacity to contain a minimum of 10% of the volume of waste stored in that area and 100% of the largest container in that area.
- 2. Process Building used for chemical treatment, compressed gas and lab pack processing. This storage building also has a concrete base, is roofed and has walls. A six-inch high concrete secondary containment curb also surrounds this building. This building houses two permitted container storage units (CS-1 and CS-3) and three chemical treatment tanks that will be described later (PT-2, PT-11, PT-12).
- 3. Ignitable Storage Building used for the storage of flammable wastes in containers. This container storage area has a concrete base, is roofed and enclosed on three sides. The container storage area is sloped to a low point in the center of the building and has the capacity to contain a minimum of 10% of all waste and 100% of the largest container stored in this area. This building is divided into three separate permitted storage units (CS-4, CS-5 and CS-6). Prior to 2009 this building housed 4 fuel blending tanks that have been clean closed and removed. A permit modification authorized November 13, 2017 expanded CS-6 to include the old fuel blend tank farm.

# **LOCATION**

The facility is located outside the 100-year flood plain and on top of a divide between two watersheds. This explains why, with all the flooding Houston has experienced, there has never been any flooding near the facility. The surrounding area within one mile of the facility is classified as mixed commercial, residential and industrial. The nearest home is 1,100 feet north, the nearest school is 3,500 feet southeast and the nearest surface water (Sims Bayou) is 7,250 feet southeast of the facility. There are no down gradient drinking water wells within one (1) mile. Storm water flows to Brays Bayou located 2 miles north of the facility.

## **SECURITY**

A six (6) foot high chain link fence topped with three (3) strands of barbed wire encloses the entire facility. All gates are closed and locked using magnetic locks and/or case-hardened chains and pad locks. On-site security personnel patrol the facility during non-operational hours. The facility is equipped with an intrusion detection and CCTV System. As required by 40 CFR 264.24, signs that state "Danger - Authorized Personnel Only" are posted on the perimeter of the site. These signs are posted in English and are visible from at least 25 feet.

## FACILITY HISTORY

SET Environmental, Inc. was incorporated in the State of Illinois on April 4, 1979 and purchased the facility from Nuclear Sources and Services Inc. (NSSI) on April 8, 1988. At the time of purchase, the facility was under interim status and had been operated by NSSI since 1985.

The site was used for agricultural purposes up to 1930. Between 1930 and 1981 the property was privately owned. During this time no entities were identified that would suggest any on site industrial or commercial activities. Aerial photographs taken in 1969 and 1975 show the property to be vacant. Nuclear Sources and Services, Inc. (NSSI) purchased the property in 1981. NSSI began construction of the existing facility in 1985 for the purpose of hazardous waste treatment and storage.

Prior to purchasing the facility, SET Environmental hired an independent engineering and consulting firm to conduct a pre-acquisition environmental risk assessment of the property. The assessment included sampling of soil and groundwater. There were no signs of contamination observed in the groundwater; however, low concentrations (highest level = 3.1 ppm) of PCBs were detected in the upper foot of soil at the southern most end of the facility. Soil core analysis at two- and three-foot depth did not show any contamination. The soil showing low concentrations of PCB's in the upper foot was excavated and disposed of in April of 1988.

SET Environmental, Inc. was issued a Part B Permit on October 4, 1990 from the Texas Natural Resource Conservation Commission and December 14, 1990 from the United States Environmental Protection Agency. SET Environmental's RCRA permit was renewed on May 10, 2013 and will expire on May 10, 2023. The facility name was changed from Treatment One, Division of SET Environmental to SET Environmental, Inc. in March of 2002 to better convey the comprehensive services offered by the company.

## III. FINANCIAL INFORMATION

CORPORATE OFFICE:	SET Environmental, Inc. 450 Sumac Road Wheeling, Illinois 60090 (800) 634-6856 or (847) 537-9221
FORM OF OWNERSHIP:	Private Corporation
COMPANY OFFICERS:	Dave Devries, CEO Bernard Tameling, Secretary/Treasurer
DUN & BRADSTREET NO:	09-897-9297
CLOSURE PLAN MECHANISM:	Trust Fund (fully funded)
CLOSURE COST ESTIMATE:	\$1,157,710 (Last Update: December 2023)
INSURANCE CERTIFICATE:	See Exhibit B
NUMBER OF EMPLOYEES:	Approximately 650 (Total), 40 (Houston Facility)

## **IV. REGULATORY INFORMATION**

USEPA ID NO:	TXD055135388					
STATE REGISTRATION NO:	50267	50267				
PART B PERMIT NO:	HW-50267-0	HW-50267-001 (See Exhibit C)				
SIC CODE:	4953 4953-01	Refuse Systems Hazardous Waste Collection and Distribution				
NAICS CODE:	562211	Hazardous Waste Treatment and Disposal				
REGULATORY STATUS:	SET - Houston is currently under no enforcement action by any regulatory body.					
PERMIT WRITER:	Fabienne Ran Waste Permit Industrial and P.O. Box 130 Austin, TX 7	d Hazardous Wastes Permits Section 087				
INSPECTION OFFICIAL:	5425 Polk Av Houston, Tex	ission on Environmental Quality, Region 12 venue, Suite H as 77023 Das, (713) 767-3749				

## **V. ADMINISTRATIVE INFORMATION**

BACKGROUND OF KEY PERSONNEL:

Dave DeVries, CEO, B.S. Business Administration
1997 - Present – SET Environmental, Inc.
1994 - 1997 - General Manager; Treatment One, Division of SET Environmental
1991 - 1994 - General Manager; SET Environmental, Inc.- Remediation Division
1986 - 1991 - Various Positions; SET Environmental, Inc.
Walter (Chuck) Kilgus, Facility General Manager, B.S. Biology, Minor Chemistry
1998 – Present – SET Environmental, Inc.

1995 - 1998 - Environmental Field Services Manager, SET Environmental

1991 - 1995 - Lab Pack Approvals Coordinator; SET Environmental

Bob Mann, Facility Chemist, M.S. Chemistry 1989 - Present – SET Environmental, Inc. 1987 - 1989 - ENSCO; Chief Chemist

Scott Skoog, Facility Engineer, B.S. Chemical Engineering, PE 1995 – Present – SET Environmental, Inc.

1993 - 1995 - Operations Manager, Treatment One, Division of SET Environmental

1985 - 1993 - SET Environmental, Inc; Permitting

Daniel A. Didier, Health Safety & Compliance Director, B.S. Forestry

Certified Hazardous Materials Manager, 1993

1988 - Present - SET Environmental, Inc.

1986 - 1988 - SET Environmental, Inc; Project Manager

James Vasquez, CSP, CSP, CSST/CSSS/ST/FS-NCCER, Safety Manager

2023 - Present SET Environmental, Inc.

2019 - 2022 Area Safety, Hi-Tech Industrial Services, LLC, Decatur, IL,

2015 - 2019 Safety, Stronghold Companies (Stronghold Inspection, EPC, ETS, Turnkey I&E, and Citadel), La Porte, TX

2014 - 2015 Laboratory, Inspectorate Bureau Veritas,

2005 - 2014 Chemical, Operations, and Laboratory, SGS North America Inc., Multiple Locations, TX

Pamela Page Nowlin, Sales Manager

1996 - Present - SET Environmental, Inc.

1992 - 1996 - Shipping, Receiving & Inventory/Administration Manager

1991 - 1992 - Canonie Environmental; Business Development Manager

1990 - 1991 - MSP Technical Service; District Account Manager

1986 - 1990 - Chemical Waste Management; Customer Service

BREAKDOWN OF EMPLOYEES BY DEPARTMENT:

Sales (off site)	4
Customer Service (off-site)	
Waste Approvals	
Finance & Billing (off-site)	
Laboratory	2
Drum Processing	3
Lab Pack Processing	3
Shipping and Receiving	3
Cylinder Management	7
Maintenance	4
Compliance and Safety	2
Administration & Human Resources	5

## VI. WASTE PROCESSING SYSTEMS

CHEMICAL TREATMENT: There are three tanks that make up the chemical treatment system. The tanks: identification numbers are PT-2, PT-11, and PT-12; permit numbers are 8, 9, and 16, and capacities are 1,870, 1,500, and 1,500 gallons, respectively.

All four tanks and associated ancillary equipment are:

- (1) Above ground;
- (2) Equipped with sealed secondary containment capable of containing the contents of the largest tank;
- (3) Equipped with agitators except PT-12;
- (4) Inspected every three (3) years for integrity by an independent registered professional engineer, and are;
- (5) Inspected each workday by qualified facility personnel. The purpose of this inspection is to identify any leaks, corrosion or other system failure in the tanks, ancillary equipment and secondary containment.

PT-2, PT-11 ancillary equipment:

- (1) Equipped with corrosion protection (Kynar liners PT-2 and PT-11 or electroless nickel plating PT-12);
- (2) Connected to an air emissions control system that is composed of a recirculating caustic counter current packed scrubber in line with an 8000-pound activated carbon bed PT-2 and PT-11.

PT-12 ancillary equipment:

- (1) Equipped with corrosion protection (electroless Nickel clad carbon steel tank);
- (2) Connected to an air emissions control system that is composed of a recirculating counter current packed scrubber in line with a cyclonic separator and venturi for particulate removal. The scrubber medium will either be caustic for acid gas treatment or potassium permanganate for treatment of reducing compounds.

The treatment processes designated for each tank are as follows: PT-2 is used for neutralization, chemical oxidation, chemical reduction and hydrolysis, and PT-11 and PT-12 are used primarily for hydrolysis of water reactive acids, oxidation/reduction and neutralization of liquids, solids, and gases.

*GAS CYLINDER PROCESSING:* SET Environmental, Inc. has a variety of scrubbing techniques used for the treatment and disposal and recycling of compressed gases. All processing activities take place under emission-controlled atmosphere. The use of PT-11 and PT-12 (Chemical Treatment Units) allows for remote handling of gas cylinders. The flow of gases through the scrubbing systems is controlled from outside the treatment building, thereby eliminating potential exposure to the gases.

Several portable processing units are used for the treatment of compressed gases. Each primary treatment unit is equipped with a back-up unit of equal capacity. These portable processing units are connected to an air emissions control system consisting of a caustic scrubber to remove acidic fugitive emissions and venturi scrubber to remove particulates.

Three large enclosures, maintained under negative pressure are utilized while connecting compressed gas cylinders to manifold systems. Air exhaust from each hood is controlled by an air emission control system (i.e., carbon beds, caustic scrubber, or hydride scrubber). Each system is designed to prevent employee exposure and capture any potential fugitive emissions.

In addition to processing compressed gases, SET Environmental, Inc. has the capability to overpack or repack cylinders in poor condition and to process cylinders with inoperable valves.

## VII. EMISSIONS CONTROL SYSTEMS

ACTIVATED CARBON BEDS: Two separate activated carbon beds are utilized throughout the facility. The following chemical processing areas have emissions controlled with activated carbon.

- 1. Lab Pack Processing Unit
- 2. Two chemical treatment tanks (PT2 and PT11)
- 3. Portable Gas Cylinder Processing Units
- 4. Enclosure at PT-2

*CAUSTIC SCRUBBERS:* The facility has four caustic scrubbing units. Three are vertical, counter current, recirculating, packed towers. The fourth unit is a horizontal, caustic bath scrubber.

The following areas have emissions controlled with caustic scrubbers.

- 1. Chemical Treatment Tanks (PT2, PT11 and PT-12)
- 2. Gas Cylinder Processing Units and Enclosures
- 3. Lab Pack Consolidation Enclosure

PARTICULATE SCRUBBERS: The facility utilizes a reverse pulse, high efficiency particulate filtration system (HEPA) to collect silica generated during the treatment of hydride gases. Connected to one of the caustic scrubbers is a venturi particulate scrubber to capture fine particulates generated from the treatment of acidic gases. The air emissions system for PT-12 is equipped with a cyclonic separator and venturi.

## VIII. WASTE TREATMENT INFORMATION

WASTE MANAGEMENT METHODS:	Neutralization, Oxidation/Reduction, Hydrolysis, Repackaging, and Storage.
PACKAGING REQUIREMENTS:	SET Environmental, Inc. will only accept DOT authorized packagings for shipments of hazardous materials; non-hazardous materials may be shipped in non-DOT specification packagings. Lab Pack and Gas Cylinder Protocols are available upon request.

UNACCEPTABLE MATERIAL: TSCA regulated PCBs, Radioactive Material, Explosives, Infectious Wastes and Dioxins.
 EMPTY DRUM HANDLING: All drums are power washed and are either reused by SET Environmental, Inc. or are rendered unusable. Metal drums are crushed and cylinders are cut in half and sent off-site for scrap metal recycling. Poly drums are cut up and shipped off-site for land disposal.

## IX. SAFETY AND TRAINING

- TRAINING:SET Environmental, Inc. has developed a comprehensive training program<br/>structured into five areas: Administrative, Safety, Regulatory, Technical and<br/>Operational. Initial training includes 40 hours of classroom instruction. Each<br/>facility employee is certified by the American Red Cross in CPR/Standard First Aid.<br/>Continuing education includes a minimum of eight hours annual review<br/>complimented with monthly safety meetings.
- *MEDICAL MONITORING:* SET Environmental, Inc.'s medical surveillance program includes a pre-employment and an annual physical examination as well as an examination upon any suspected exposure and upon termination of employment. A physician experienced in industrial medicine monitors medical surveillance results.
- SAFETY EQUIPMENT: Phones readily accessible near the point of operations that can be used to summon emergency assistance. Emergency response and first aid stations are located near each processing area. See Exhibit D for description emergency response equipment. Each building is equipped with an automatic fire suppression system. The system activates when thermal detectors are exposed to a temperature of 190°F or a temperature rise of 15° F in one minute or less. Each hood enclosure is also equipped with a separate automatic dry chemical fire extinguishing system. Once automatic systems are activated, an alarm sounds to evacuate employees and a monitoring service contacts the Fire Department. The facility is also equipped with a general alarm to aid in evacuation of the facility personnel for other emergencies. Activators are located in all facility exit routes.

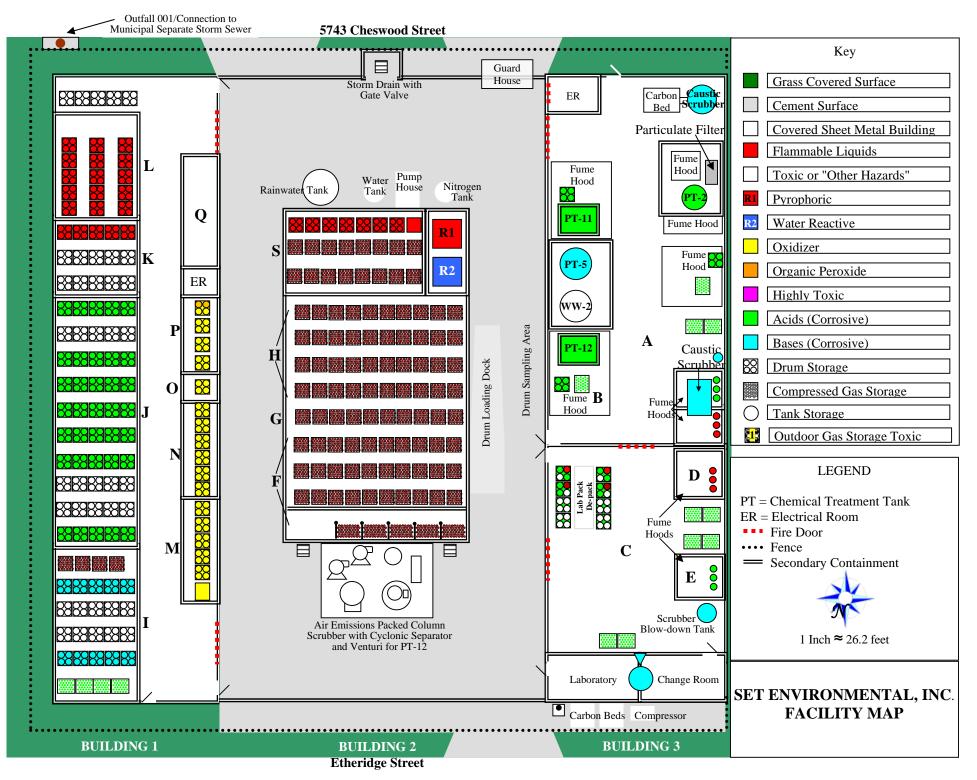
## X. LABORATORY INFORMATION

PERSONNEL: Experienced, degreed chemists staff SET ENVIRONMENTAL, INC.'s laboratory.
 EQUIPMENT: The Houston lab is equipped with a flashpoint tester, a bomb calorimeter, halogen analyzers, pH meter, Karl Fischer titration unit, hydrometer, fourier-transform infrared spectrometer (FT-IR), and mass spectrometer.
 WASTE ANALYSIS: A minimum of ten percent of the containers are sampled for each wastestream in each shipment, although SET Environmental, Inc. typically takes a composite sample of 100 percent of the containers. The sample is then analyzed to verify that wastes received are those described on the wastestream profile. Depending on the type of waste, analysis may include: % water, flashpoint, pH, BTU, %halides, specific gravity, reactive sulfide, reactive cyanide, qualitative tests for peroxides and oxidizing potential. Lab packs are unpacked and checked for conformance with

approved lab pack inventories. If the waste stream or lab pack does not conform to previously approved paperwork, SET Environmental, Inc. will contact the generator or the generator's agent in an effort to resolve the discrepancy. If the discrepancy requires further investigation, SET Environmental, Inc. will conditionally accept the waste if authorized by the generator until further analysis can be conducted. If the discrepancy cannot be resolved (this rarely occurs) the waste will be returned to the generator or an alternate facility.

## XI. RECORD KEEPING AND REQUIRED FORMS

INTERNAL RECORDS:	The following records and documents are maintained by SET Environmental, Inc.: Container Inventory and Tracking System, Contingency Plan, Spill Prevention Control and Counter Measure Plan, Waste Minimization Program, Waste Analysis Plan, Inspection Schedule, Training Documentation.
WASTE PROFILE:	Waste Profile sheets are required for each individual wastestream.
LAB PACK INVENTORIES	Lab Pack inventories must be submitted with a Lab Pack summary form signed by the packaging agent and generator for each Lab Pack project.
CYLINDER PROFILE:	Cylinder Profiles must be submitted with each batch of cylinders for approval. In addition to the completed Gas Cylinder Profile, a Gas Cylinder Inspection and Evaluation Report must be completed and attached to the Profile. The Gas Cylinder Profile must be signed by the packaging agent and generator. If at all possible, include pictures of each cylinder.



**Joyner Street** 



# **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 05/22/2024

C B	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.									
	IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed.									
	If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).						'n			
	DUCER				CONTA NAME:					
Acr	isure LLC				PHONE (A/C, No	(847)33	0-5000	FAX (A/C, No):	(847) 7	05-1075
162	21 Colonial Parkway				E-MAIL ADDRE	tacorto@h	ini.com			
						INS	SURER(S) AFFOR	DING COVERAGE		NAIC #
Inve	erness			IL 60067	INSURE	RA: Indian Ha	arbor Insuranc	e Company		36940
INSL	JRED				INSURER B : XL Insurance America, Inc				24554	
	SET Environmental, Inc.				INSURE	RC:				
	450 Sumac Road				INSURE	RD:				
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# **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

					3/12/2024
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.					THE POLICIES
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PRODUCER Cottingham & Butler	CONTA	ACT To Reques	t a Certificate	FAV	
800 Main St. Dubuque IA 52001	PHONE (A/C, N E-MAIL ADDRE	<mark>ko, Ext):</mark> 888-785 L Ess: certificate	5-4677 s@cottinghai	(A/C, No): 50	3-587-5990
		INSURER(S) AFFORDING COVERAGE			
INSURED	SETENI/1	INSURER A : The Travelers Indemnity Company of America			
SET Environmental, Inc. 450 Sumac Road		INSURER B : INSURER C :			
Wheeling IL 60090	INSUR	ER D :			
COVERAGES CERTIFICATE NU	MBER: 779021828			REVISION NUMBER:	
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TI CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE I EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMIT	ERM OR CONDITION OF AN NSURANCE AFFORDED BY	Y CONTRACT	OR OTHER D	OCUMENT WITH RESPECT	TO WHICH THIS
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				EACH OCCURRENCE \$	
CLAIMS-MADE OCCUR				PREMISES (Ea occurrence)         \$           MED EXP (Any one person)         \$	
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GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$	
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***For Information Only*** Please Send Your Certificate Request To:		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
certificates@cottinghambutler.com Or Fax To: (563) 587-5990	AUTHO B	AUTHORIZED REPRESENTATIVE			

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Texas Commission on Environmental Quality Austin, Texas

Permit for Industrial Solid Waste Management Site issued under provisions of Texas Health and Safety Code ANN. Chapter 361 and Chapter 26 of the Texas Water Code

Name of Permittee:

Site Owner:

**Registered Agent for Service:** 

Hazardous Waste Permit No. 50267

EPA ID No. TXD055135388

ISWR No. 50267

Original Date of Issuance: October 3, 1990

Renewal Date: August 12, 2002

SET Environmental, Inc. 5738 Cheswood Street Houston, Texas 77087

SET Environmental, Inc. 5738 Cheswood Street Houston, Texas 77087

Keith Hopson Brown McCarrol & Oaks Hartline 111 Congress Avenue Austin, TX 78701

Classification of Site:

Waste Classification:	<u>Site Type:</u>	<u>Permit Type:</u>
Hazardous	On-Site	Storage
Nonhazardous:	Off-Site	Processing
Industrial Class 1 waste		

All provisions in this permit stem from State and/or Federal authority. Those provisions marked with an asterisk (\*) stem from Federal authority and will implement the applicable requirements of Hazardous and Solid Waste Amendments of 1984 (HSWA) for which the Texas commission on Environmental Quality (TCEQ) has not been authorized. Those provisions marked with a double asterisk (\*\*) stem from federal authority only.

This permit is granted subject to the terms and conditions of the permit, rules of the commission and other Orders of the commission, and laws of the State of Texas. This permit does not exempt the permittee from compliance with the Texas Clean Air Act. This permit will be valid until canceled, amended, modified or revoked by the commission, except that the authorization under the permit shall expire midnight, ten (10) years after the date of permit approval.

Issued Date: June 6, 2024

For the Commission

Continuation Sheet 2 of 35

Permit No. 50267 Permittee: SET Environmental, Inc.

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A	Legal Description of Facility
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С	Permit Application Revision Chronology
D	List of Incorporated Application Materials
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Permit/Compliance	
ACL	Alternate Concentration Limit
AAL	Attenuation Action Level(s)
ALR	Action Leakage Rate
AMP	Attenuation Monitoring Point
AOC	Area(s) of Concern
APA	Affected Property Assessment
APAR	Affected Property Assessment Report
APOE	Alternate Point of Exposure
Appendix VIII	40 CFR 261, Appendix VIII (Identification and Listing of Hazardous Waste - Hazardous Constituents)
ASTM	American Society for Testing and Materials
BGS	Below Ground Surface
BLRA	Baseline Risk Assessment
CAO	Corrective Action Observation
CAS	Corrective Action System
CCC	Coastal Coordination Council
CEMS	Continuous Emissions Monitoring System
ĊFR	Code of Federal Regulations
CMI	Corrective Measures Implementation
СМР	Texas Coastal Management Program
CMS	Corrective Measures Study
СОС	Constituent(s) of Concern
EPA	United States Environmental Protection Agency
EPA SW-846	Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Third Edition, November 1986
GWPS	Groundwater Protection Standard
HSWA	Hazardous and Solid Waste Amendments of 1984
ICM	Interim Corrective Measures
LDR	Land Disposal Restrictions
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MSL	Mean Sea Level
NAPL	Non-Aqueous Phase Liquid
NOR	Notice of Registration
РСВ	Polychlorinated Biphenyl
PCL	Protective Concentration Level

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PMZPlume Management Zone
POCPoint of Compliance
POEPoint of Exposure
ppmParts Per Million
ppmvParts Per Million by Volume
PQLPractical Quantitation Limit
PsiPounds Per Square Inch
QA/QCQuality Assurance/Quality Control
RACRResponse Action Completion Report
RAERResponse Action Effectiveness Report
RAPResponse Action Plan (for Action Leakage Rate in landfills)
RAPRemedial Action Plan
RCRAResource Conservation and Recovery Act
RFARCRA Facility Assessment
RFIRCRA Facility Investigation
RRRTCEQ Risk Reduction Rules
RRSRisk Reduction Standard
RSARemedy Standard A
RSBRemedy Standard B
SR/WMSource Reduction and Waste Minimization
SSIStatistically Significant Increase
SWDASolid Waste Disposal Act
SWMUSolid Waste Management Unit(s)
TACTexas Administrative Code
TCEQTexas Commission on Environmental Quality
TCEQ QAPP"Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act and Underground Injection Control"
THCTotal Hydrocarbons
TRRPTexas Risk Reduction Program

### I. Facility Description

#### A. Size and Location of Site

A permit is issued to SET Environmental, Inc. (hereafter called the permittee), to manage a hazardous waste facility located at 5738 Cheswood Street, Houston, in Harris County, Texas, and within the drainage area of Segment 1007 in the San Jacinto River Basin (North Latitude 29° 40' 32", West Longitude 95° 18' 24"). The legal description of the facility submitted in Permit No. 50267 application received November 8, 2022, is hereby made a part of this permit as "Attachment A." The hazardous waste management facility as delineated by the permittee's application map is hereby made a part of this permit as "Attachment B."

## B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial & Hazardous Waste Application submittals, and the subsequent revisions to the permit and permit application that are listed in "Attachment C", and the Application Elements listed in "Attachment D", which are hereby approved subject to the terms of this permit and any other orders of the TCEQ.

These materials are incorporated into this permit by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this permit upon the date of approval by the commission.

### II. General Facility Standards

A. Standard Permit Conditions

The permittee has a duty to comply with the Standard Permit Conditions under 30 Texas Administrative Code (TAC) Section 305.125. Moreover, the permittee has a duty to comply with the following permit conditions:

1. Modification of Permitted Facilities

The facility units and operational methods authorized are limited to those described herein and by the application submittals identified in Section I.B. All facility units and operational methods are subject to the terms and conditions of this permit and TCEQ rules. Prior to constructing or operating any facility units in a manner which differs from either the related plans and specifications contained in the permit application or the limitations, terms or conditions of this permit, the permittee must comply with the TCEQ permit amendment/ modification rules as provided in 30 TAC Sections 305.62 and 305.69.

2. Duty to Comply

The permittee must comply with all the conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the commission. Any permit noncompliance, other than noncompliance authorized by an emergency order, constitutes a violation of the Resource Conservation and Recovery Act (RCRA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial

of a permit renewal application. [30 TAC Section 305.142]

3. Severability

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected.

4. Definitions

For purposes of this permit, terms used herein shall have the same meaning as those in 30 TAC Chapters 305, 335, and 350 unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

Application data - data used to complete the final application and any supplemental information.

5. Permit Expiration

In order to continue a permitted activity after the expiration date of the permit the permittee shall submit a new permit application at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the executive director. Authorization to continue such activity will terminate upon the effective denial of said application.

6. Certification Requirements

For a new facility, the permittee may not commence storage, processing, or disposal of solid waste; and for a facility being modified, the permittee may not process, store or dispose of solid waste in the modified portion of the facility, except as provided in 30 TAC Section 305.69 (relating to Solid Waste Permit Modification at the Request of the Permittee) until the following has been accomplished [30 TAC Section 305.144]:

a. The permittee has submitted to the executive director and the local Regional Office of the TCEQ, by certified mail or hand delivery, a letter signed by the permittee, and signed and sealed by a Texas Professional Engineer stating that the facility has been constructed or modified in compliance with the permit. If the certification is being provided to document proper closure of a permitted unit, or to certify installation or repair of a tank system, then the certification must be signed and sealed by an independent Texas licensed Professional Engineer. Required certification shall be in the following form:

"This is to certify that the following activity (specify activity, e.g., construction, installation, closure, etc., of an item) relating to the following item (specify the item, e.g., the particular facility, facility unit, unit component, subcomponent part, or ancillary component), authorized or required by TCEQ Permit No. 50267 has been completed, and that construction of said facility component has been performed in accordance

with and in compliance with good engineering practices and the design and construction specifications of Permit No. 50267."

- b. A certification report has been submitted, with the certification described in Provision II.A.6.a., which is logically organized and describes in detail the tests, inspections, and measurements performed, their results, and all otherbases for the conclusion that the facility unit, unit component, and/or closure have been constructed, installed and/or performed in conformance with the design and construction specifications of this permit and in compliance with this permit. The report shall describe each activity as it relates to each facility unit or component being certified including referenceto all applicable permit provisions. The report shall contain the following items, at a minimum:
- (1) Scaled, as-built plan-view and cross-sectional drawings which accurately depict the facility unit and all unit components and subcomponents and which demonstrate compliance with the design and construction specifications approved and detailed in the terms of this permit;
- (2) All necessary references to dimensions, elevations, slopes, construction materials, thickness and equipment; and
- (3) For all drawings and specifications, the date, signature, and seal of a Professional Engineer who is licensed in the State of Texas.
- c. The executive director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or if within fifteen (15) days of submission of the letter required by paragraph (a)of this section, the permittee has not received notice from the executive director of the intent to inspect, prior inspection is waived and the permittee may commence processing, storage, or disposal of solid waste.
- 7. Land Disposal Restrictions

The permittee shall comply with the land disposal restrictions as found in 40 Code of Federal Regulations (CFR) 268 and any subsequent applicable requirements promulgated through the Federal Register. Requirements include modifying/amending the permittee's waste analysis plan to include analyses to determine compliance with applicable treatment standards or prohibition levels, pursuant to 40 CFR 268.7(c) and 264.13(a).

8. Dust Suppression

Pursuant to 40 CFR 266.23(b)/30 TAC Section 335.214(b), the permittee shall not use waste, used oil, or any other material which is contaminated with dioxin, polychlorinated biphenyls (PCBs), or any other hazardous waste (other than a waste identified solely on the basis of ignitability) for dust suppression or road treatment.

9. Permit Reopener

This permit shall be subject to review by the executive director five (5) years from the date of permit issuance or reissuance and shall be modified as

[II. - General Facility Standards, A. - Standard Permit Conditions]

> necessary to assure that the facility continues to comply with currently applicable requirements of the Solid Waste Disposal Act (SWDA) and the rules and regulations of the commission. The permittee shall submit any information as may be reasonably required by the executive director to ascertain whether the facility continues to comply with currently applicable requirements of the SWDA and the rules and regulations of the commission.

10. Texas Coastal Management Program

The TCEQ has reviewed the permit application for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the Coastal Coordination Council (CCC) and has determined that the permit is consistent with the applicable CMP goals and policies. [30 TAC Section 281.43(a)(1)]

11. Monitoring of Commercial Hazardous Waste Management Facility Operations

Within the first year after commission initial action on this permit and any subsequent amendment, modification, transfer, extension, or renewal of this permit, the permittee shall provide notice to affected persons of the intent to have an independent annual environmental audit of the facility performed. The notice shall be issued in accordance with the requirements of 30 TAC Section 305.147(1). If an affected party requests the audit, then the permittee must follow the requirements of 30 TAC Sections 305.147(2)-(6), and (8), for selecting an independent inspector, paying for the notice and audit, submission of a written report, and determining the scope of the inspection.

12. Failure to Submit Relevant Facts in Permit Application

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the executive director, the permittee shall promptly submit the correct information or facts to the executive director. [30 TAC Section 305.125(19)]

- 13. Hazardous Waste Combustion Facility Provision (Reserved)
- 14. Waste Management Fee Assessment, Fee Payment, and Records and Reporting
  - a. If applicable, the permittee is subject to the assessment of fees for hazardous wastes which are stored, processed, disposed, or otherwise managed and for Class 1 industrial wastes which are disposed at a commercial facility. [30 TAC Section 335.325]
  - b. As applicable and except as provided in Provision II.A.14.c., the permittee shall pay waste management fees monthly. Monthly fee payments shall be due by the 25th day following the end of the month for which payment is due. [30 TAC Section 335.328(b)]
  - c. If required, the permittee owes waste management fees in an amount less than \$500 for a calendar month or less than \$1,500 for a calendar quarter, the permittee may file a quarterly report and pay a quarterly fee. [30 TACSection 335.328(c)]

- d. If required, the permittee shall document the basis for the assessment of any applicable waste management fees, including any adjustment to or exemption from assessment. [30 TAC Section 335.329(b)(4)]
- e. If required, the permittee shall submit a monthly report of on-site waste management activities subject to the assessment of waste management fees on forms furnished or approved by the executive director. This report shall be due by the 25th day following the end of the month (or quarter) for which a report is made. Monthly (or quarterly) reports shall be submitted, regardless of whether any storage, processing, or disposal was made during a particular month (or quarter), by preparing and submitting a summary indicating that no waste was managed during that month (or quarter). [30 TAC Section 335.329(b)(5)]
- f. As applicable, the permittee shall maintain the required records and reports in accordance with 30 TAC Sections 335.329(c) and (d).
- 15. Transfer of Ownership and/or Operational Control

The transfer of ownership and/or operational control of this permit is subject to the transfer requirements of 30 TAC Section 305.64 and permit modification requirements of 30 TAC Section 305.69. The new owner and/or operator seeking a transfer of ownership and/or operational control of this permit shall submit a Class 1<sup>1</sup> permit modification (with prior written approval by the executive director) at least 90 days prior to the scheduled transfer in accordance with 30 TAC Section 305.69(b)(2). Prior to the executive director issuing the permit modification transferring the permit, the new owner or operator shall provide a fully executed financial assurance mechanism satisfactory to the TCEQ executive director, for all existing units which have received waste and any corrective action required under this permit, in compliance with 30 TAC Chapter 37, Subchapter P. [30 TAC Section 305.64(g)]

- B. Recordkeeping and Reporting Requirements
  - 1. Monitoring and Records
    - a. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act and Underground Injection Control" (TCEQ QAPP).
    - b. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity. The method used to obtain a representative sample of the material to be analyzed shall be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved in writing prior to use by the executive director of the TCEQ. Laboratory methods shall be the latest version specified in current edition of Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846 (EPA SW-846); Standard Methods for the Examination of Water and Wastewater; RCRA Groundwater Monitoring: DraftTechnical Guidance, 1992, OSWER Directive 9950.1; or an equivalent method; as specified in the Waste Analysis Plan, Section IV of the Part B Application, and approved in writing prior to use by the

executive director. [30 TAC Section 305.125(11)(A)]

- c. The permittee shall retain in an organized fashion and furnish to the executive director, upon request, records of all monitoring information, copies of all reports and records required by this permit, and the certification required by 40 CFR 264.73(b)(9), for a period of at least three (3) years from the date of the sample, measurement, report, record, certification, or application. [30 TAC Section 305.125(11)(B)]
- d. Records of monitoring shall include the following [30 TAC Section 305.125(11)(C)]:
- (1) The date, time, and place of sample or measurement;
- (2) The identity of individual who collected the sample or measurement;
- (3) The dates analyses were performed;
- (4) The identity of individual and laboratory who performed the analyses;
- (5) The analytical techniques or methods used; and
- (6) The results of such analyses or measurements.
- e. All engineering and geoscientific information submitted to the TCEQ shall beprepared by, or under the supervision of, a licensed professional engineer orlicensed professional geoscientist, and shall be signed, sealed, and dated by qualified professionals as required by the Texas Engineering Practice Act and the Texas Geoscience Practice Act and the licensing and registration boards under these acts.
- 2. Operating Record

In addition to the recordkeeping and reporting requirements specified elsewhere in this permit, the permittee shall maintain a written operating record at the facility, in accordance with 40 CFR 264.73. These records will be made available to representatives of the TCEQ upon request.

3. Retention of Application Data

Throughout the terms of the permit, the permittee shall keep records of data used to complete the final application and any supplemental information. All copies of renewals, amendments, revisions and modifications must also be kept at the facility such that the most current documents are available for inspection at all times. All materials, including any related information, submitted to complete the application shall be retained, not just those materials which have been incorporated into the permit. [30 TAC Section 305.47]

4. Reporting of Noncompliance

The permittee shall report to the executive director of the TCEQ information regarding any noncompliance which may endanger human health or the environment. [30 TAC Section 305.125(9)]

- a. Report of such information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the noncompliance.
- b. A written submission of such information shall also be provided within five (5) days of the time the permittee becomes aware of the noncompliance. The written submission shall contain the following:
- (1) A description of the noncompliance and its cause;
- (2) The potential danger to human health or safety, or the environment;
- (3) The period of noncompliance, including exact dates and times;
- (4) If the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- (5) Steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance, and to mitigate its adverse effects.
- 5. Twenty-Four Hour Reporting

The following shall be included as information which must be reported orally within twenty-four (24) hours pursuant to 30 TAC Section 305.125(9) [30 TAC Section 305.145]:

- a. Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies; and
- b. Any information of a release or discharge of solid waste, or of a fire or explosion which could threaten the environment or human health or safety,outside the facility. The description of the occurrence and its cause shall include:
- (1) Name, address, and telephone number of the owner or operator;
- (2) Name, address, and telephone number of the facility;
- (3) Date, time, and type of incident;
- (4) Name and quantity of material(s) involved;
- (5) The extent of injuries, if any;
- (6) An assessment of actual or potential hazards to the environment and human health or safety outside the facility, where this is applicable; and
- (7) Estimated quantity and disposition of recovered material that resulted from the incident.
- 6. Notice Waiver

The executive director may waive the five (5) day written notice requirement specified in Provision II.B.4.b. in favor of a written report submitted to the

commission within fifteen (15) days of the time the permittee becomes aware of the noncompliance or condition. [30 TAC Section 305.145(b)]

7. Biennial Report

The permittee shall prepare and submit to the executive director all information and records required by 40 CFR 264.75. By March 1st of each even-numbered year for the preceding odd-numbered year's activities the permittee shall submit either a Biennial Report or letter certifying submission of the above. One copy of the report/letter shall be submitted to the TCEQ Industrial & Hazardous Waste Permits Section and an additional copy shall be submitted to the appropriate TCEQ Regional Office.

8. Pollution Prevention

Facilities subject to 30 TAC Chapter 335, Subchapter Q - Pollution Prevention: Source Reduction and Waste Minimization must prepare a five (5) year Source Reduction and Waste Minimization Plan and submit a Source Reduction and Waste Minimization (SR/WM) Annual Report to the TCEQ Environmental Assistance Division. This report must be submitted annually on the dates specified in the rule.

- 9. Annual Detection Monitoring Report (Reserved)
- 10. Manifest Discrepancy Report

If a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy. If not resolved within fifteen (15) days,the permittee must submit a report, describing the incident, to the executive director, as per the requirements of 30 TAC Section 335.12. A copy of the manifest must be included in the report.

11. Unmanifested Waste Report

A report must be submitted to the executive director within fifteen (15) days of receipt of unmanifested waste, as per the requirements of 30 TAC Section 335.15(3).

12. Monthly Summary

The permittee shall prepare a monthly report, of all manifests received during the month, summarizing the quantity, character, transporter identity, and the method of storage, processing and disposal of each hazardous waste or Class 1 waste shipment received, itemized by manifest document number. This monthly summary report shall be submitted to the TCEQ Registration and Reporting Section on or before the 25th day of each month for waste received during the previous month. [30 TAC Section 335.15(2)]

13. Annual Unsaturated Zone Monitoring Report (Reserved)

14. Annual Zone of Incorporation Monitoring Report (Reserved)

C. Incorporated Regulatory Requirements

### 1. State Regulations

The following TCEQ regulations are hereby made provisions and conditions of the permit to the extent applicable to the activities authorized by this permit.

- 30 TAC Chapter 37, Subchapter P: Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities;
- 30 TAC Chapter 305, Subchapter A: General Provisions;
- 30 TAC Chapter 305, Subchapter C: Application for Permit;
- 30 TAC Sections 305.61 305.69 (regarding amendments, renewals, transfers, corrections, revocation and suspension of permits);
- 30 TAC Sections 305.121 305.125 (regarding permit characteristics and conditions);
- 30 TAC Sections 305.127 305.129 (regarding permit conditions, signatories and variance procedures);
- 30 TAC Chapter 305, Subchapter G: Additional Conditions for Hazardous and Industrial Solid Waste Storage, Processing and Disposal Permits;
- 30 TAC Chapter 305, Subchapter I: Hazardous Waste Incinerator Permits;
- 30 TAC Chapter 305, Subchapter J: Permits for Land Treatment Demonstrations Using Field Tests or Laboratory Analyses;
- 30 TAC Chapter 305, Subchapter K: Research, Development and Demonstration Permits;
- 30 TAC Chapter 305, Subchapter Q: Permits for Boilers and Industrial Furnaces Burning Hazardous Waste;
- 30 TAC Chapter 335, Subchapter A: Industrial Solid Waste and Municipal Hazardous Waste in General;
- 30 TAC Chapter 335, Subchapter B: Hazardous Waste Management General Provisions;
- 30 TAC Section 335.152, Standards;
- 30 TAC Sections 335.153 335.155 (regarding reporting of emergency situations and additional reports required);
- 30 TAC Sections 335.156 335.167 (regarding applicability of groundwater monitoring programs and corrective action requirements);
- 30 TAC Sections 335.168 335.169 (regarding the design and operating requirements and closure and post-closure care of surface impoundments);
- 30 TAC Section 335.170 (regarding the design and operating requirements of waste piles);

[II. - General Facility Standards, C. - Incorporated Regulatory Requirements]

- 30 TAC Sections 335.171 335.172 (regarding the design and operating requirements and closure and post-closure care of land treatment units);
- 30 TAC Sections 335.173 335.174 (regarding the design and operating requirements and closure and post-closure care of landfills);
- 30 TAC Sections 335.175 335.176 (regarding special requirements for containers and bulk and containerized waste);
- 30 TAC Sections 335.177 335.179 (regarding general performancestandard, cost estimate for closure, and financial assurance);
- 30 TAC Section 335.221 (regarding hazardous waste burned for energy recovery);
- 30 TAC Sections 335.325, 335.328 and 335.329 (regarding waste management fee assessment, fee payment, and records and reports);
- 30 TAC Chapter 335, Subchapter Q: Pollution Prevention: Source Reduction and Waste Minimization; and
- 30 TAC Chapter 350, Texas Risk Reduction Program.

Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable state statute and/or commission Rule.

2. Federal Regulations

The following provisions of 40 CFR Parts 264, 266 Subpart H, 266 Subpart M, and Part 268, adopted by reference by 30 TAC Section 335.152, 30 TAC Section 335.221(a), and 335 Subchapter O, are hereby made provisions and conditions of this permit, as applicable, to the extent consistent with the Texas Solid Waste Disposal Act, Texas Health and Safety Code Ann., Chapter 361 (Vernon), and the rules of the TCEQ:

- Subpart B -- General Facility Standards;
- Subpart C -- Preparedness and Prevention;
- Subpart D -- Contingency Plan and Emergency Procedures;
- Subpart E -- Manifest System, Recordkeeping, and Reporting;
- Subpart G -- Closure and Post-Closure;
- Subpart H -- Financial Requirements;
- Subpart I -- Use and Management of Containers;
- Subpart J -- Tank Systems;
- Subpart K -- Surface Impoundments;

- Subpart L -- Waste Piles;
- Subpart M -- Land Treatment;
- Subpart N -- Landfills;
- Subpart O -- Incinerators;
- Subpart X -- Miscellaneous Units;
- Subpart AA -- Air Emission Standards for Process Vents;
- Subpart BB -- Air Emission Standards for Equipment Leaks;
- Subpart CC -- Air Emission Standards for Tanks, Surface Impoundments, and Containers;
- Subpart DD -- Containment Buildings;
- Subpart EE -- Hazardous Waste Munitions and Explosives Storage;
- 40 CFR Part 266 Subpart H -- Hazardous Waste Burned in Boilers and Industrial Furnaces; and
- 40 CFR Part 268 -- Land Disposal Restrictions (LDR).

#### III. Facility Management

A. Operation of Facility

The permittee shall construct, maintain, and operate the facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment, as required by 40 CFR 264.31. All equipment and structures used to manage hazardous waste at the facility shall be maintained in proper operating condition.

#### B. Personnel Training

The permittee shall ensure that all facility personnel involved with hazardous waste management successfully complete a training program as required by 40 CFR 264.16. The permittee shall maintain training documents and records, as required by 40 CFR 264.16(d) and (e).

- C. Security
  - 1. The permittee shall provide a twenty-four (24) hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or
  - 2. The permittee shall provide and maintain an artificial or natural barrier which completely surrounds the active waste management portion(s) of the facility and shall have a means to control entry, at all times, through gates or other entrances to these same facility areas; and

[III. - Facility Management, C. - Security]

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Permittee: SET Environmental, Inc.

- 3. The permittee shall post warning signs at all points of access to the active waste management portion(s) of the facility and along the natural and/or artificial barriers in sufficient numbers to be seen from any approach to that (those) portion(s) of the facility. The signs shall be printed so that they may be clearly read from a distance of at least twenty-five (25) feet, and shall state "Danger Unauthorized Personnel Keep Out" in English and in an alternate language per 40 CFR 264.14(c), as applicable.
- D. General Inspection Requirements

The permittee shall follow the inspection schedule contained in the permit application submittals identified in Section I.B. of this permit and as set out in Table III.D. - Inspection Schedule. The permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by 40 CFR 264.15(c). Records of inspection shall be kept, as required by 40 CFR 264.15(d). Any remedial actions taken in response to facility inspections and the date of the remediation shall be included in the inspection records.

- E. Contingency Plan
  - 1. The permittee shall follow the Contingency Plan, developed in accordance with 40 CFR Part 264 Subpart D, and contained in the permit application submittals identified in Section I.B. of this permit. Copies of this plan shall be available to all employees involved in waste management at the facility.
  - 2. The permittee shall immediately initiate clean-up procedures for removal of any spilled hazardous or industrial nonhazardous wastes and waste residues and shall take all steps necessary to prevent surface water or groundwater contamination as a result of any spills.
  - 3. Collected hazardous or industrial nonhazardous wastes, spills, leaks, clean-up residues, and contaminated rainfall runoff, including contaminated stormwater from the drainage control system(s) associated with the permitted units, shall be removed promptly after the spillage and/or rainfall event in as timely a manner as is necessary to prevent overflow of the system by the following method(s):
    - a. Removal to an on-site authorized facility unit;
    - b. Removal to an authorized industrial solid waste management facility or authorized off-site facility; or
    - c. Discharge in accordance with a wastewater discharge permit.
  - 4. The permittee shall ensure that any equipment or vehicles which have come in contact with waste in the loading/unloading, storage, processing, and/or disposal areas have been decontaminated prior to their movement into designated uncontaminated areas of the site property. At a minimum, all contaminated equipment shall be externally decontaminated and contaminated vehicles shall have their undercarriages and tires or tracks decontaminated to remove all waste residues and to prevent contamination of uncontaminated areas. All wash water generated shall be collected and disposed of in accordance with Provision III.E.3.
  - 5. Preparedness and Prevention

- a. At a minimum, the permittee shall equip the facility as set forth in Table III.E.3. Emergency Equipment contained in the permit application identified in Section I.B. of this permit, as required by 40 CFR 264.32.
- b. All sumps, pumps, fire- and spill-control equipment, decontamination equipment, and all other equipment and structures authorized or required through the Contingency Plan shall be tested and maintained, as necessary, to assure its proper operation in time of emergency, as required by 40 CFR 264.33.
- c. The permittee shall maintain access to the communications or alarm system, as required by 40 CFR 264.34.
- d. A trained emergency coordinator shall be available at all times in case of an emergency and will have the responsibility for coordinating all emergency response measures as required by 40 CFR 264.55 and 264.56. Emergency number(s) shall be posted in all waste management portions of the facility and all employees in those areas shall be trained in the location of those postings.

#### IV. Waste and Waste Analysis

A. Waste Analysis Plan

The permittee shall follow the Waste Analysis Plan, developed in accordance with 40 CFR 264.13 and the permit application identified in Section I.B. of this permit.

- B. Authorized Wastes
  - The permittee is authorized to manage hazardous and nonhazardous industrial and municipal solid wastes listed in Table IV.B. - WastesManaged in Permitted Units, subject to the limitations provided herein. Wastes authorized for storage and processing include those generated from facility sources and from off-site sources.
  - 2. Hazardous and Nonhazardous Waste Received From Off-Site Sources

When authorized wastes include hazardous or nonhazardous waste from an offsite source (except where the permittee is also the generator), as described in the Part B application, Section IV, the permittee shall inform the generator in writing that the permittee has the appropriate permits and will accept the waste the generator is shipping. The permittee shall keep a copy of this written notice as part of the operating record. [40 CFR 264.12(b)]

- 3. The wastes authorized in Table IV.B. shall not contain any of the following unless authorized:
- a. PCB waste, as defined by the Environmental Protection Agency (EPA) in regulations issued pursuant to the Toxic Substances Control Act under 40 CFR Part 761, unless the permittee is compliant with the federal requirements for PCB storage as specified in 40 CFR Part 761;
  - b. Radioactive materials/wastes unless the permittee is authorized to store and process these wastes in compliance with specific licensing and

permitting requirements under Chapter 401 of the Texas Health and Safety Code. In accordance with 30 TAC Section 336.203, no person shall dispose of radioactive material unless that person has a license or an exemption from the Texas Commission on Environmental Quality (TCEQ) under Texas Health and Safety Code, Section 401.106(a);

- c. Explosive material, as defined by the Department of Transportation under 49 CFR Part 173;
- d. Dioxin-containing wastes, identified by EPA as F020, F021, F022, F023, F026, and F027 wastes in 40 CFR 261.31;
- e. Garbage as defined in 30 TAC Section 330.3;
- f. Municipal Solid Waste that is composed of garbage, rubbish, ashes, street cleanings, used tires, dead animals and abandoned automobiles;
- g. Putrescible Waste as defined in 30 TAC Section 330.3; or
- h. Special Waste from Health-Care Related Facilities subject to 25 TAC Part 1 or 30 TAC Chapter 326.
- 4. Prior to accepting any additional wastes not authorized in Table IV.B., the permittee shall follow the permit amendment or modification requirements listed in 30 TAC Sections 305.62 and 305.69.
- 5. The permittee may store wastes restricted under 40 CFR Part 268 solely for the purpose of accumulating quantities necessary to facilitate proper recovery, treatment, or disposal provided that it meets the requirements of 40 CFR 268.50(a)(2) including, but not limited to the following:
  - a. Clearly marking each container to identify its contents and the date each period of accumulation begins; and
  - b. Clearly marking each tank with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility.
- C. Sampling and Analytical Methods
  - 1. Table IV.C. Sampling and Analytical Methods, shall be used in conjunction with the Waste Analysis Plan referenced in Section IV.A. of this permit, in performing all waste analyses.
  - 2. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of EPA SW-846, American Society for Testing and Materials (ASTM) or other methods accepted by the TCEQ. The permittee shall have a Quality Assurance/Quality Control (QA/QC) program that is consistent with EPA SW-846 and the TCEQ QAPP.

### V. Authorized Units and Operations

[V. - Authorized Units and Operations, C. - Sampling and Analytical Methods]

### A. Authorized Units

- 1. The permittee is authorized to operate the permitted facility units listed in "Attachment E" in accordance with terms and conditions of this permit and subject to the limitations herein. All waste management activities not otherwise exempted from permitting under 30 TAC Section 335.2 shall be confined to the authorized facility units subject to permitting listed in "Attachment E." References hereinafter in this permit to "TCEQ Permit Unit No. \_\_\_\_" shall be to the authorized permitted facility units listed in "Attachment E." All authorized units must be clearly identified as numbered in "Attachment E." These units must have signs indicating "TCEQ Permit Unit No. \_\_\_\_."
- 2. The permittee shall comply with 40 CFR 264.17, relating to general requirements for ignitable, reactive, or incompatible wastes.
- 3. The permittee shall prevent inundation of any permitted units and prevent any discharges of any waste or runoff of waste contaminated stormwater from permitted units. Additionally, each loading or unloading area, associated with a permitted hazardous or nonhazardous waste management unit, shall be provided with a drainage control system which will collect spills and precipitation in such a manner as to satisfy the following:
  - a. Preclude the release from the system of any collected spills, leaks or precipitation;
  - b. Minimize the amount of rainfall that is collected by the system; and
  - c. Prevent run-on into the system from other portions of the facility.
- 4. The permittee shall construct, operate, and maintain the facility to prevent washout of any hazardous waste by a 100-year flood, as required by 40 CFR 264.18(b)(1).
- B. Container Storage Areas
  - 1. Container storage areas and their management method are shown in Table V.B. -Container Storage Areas. The permittee is authorized to operate the facility container storage areas subject to the limitations contained herein.
  - 2. Containers holding hazardous waste shall be managed in accordance with 40 CFR 264.171, Condition of containers; 40 CFR 264.172, Compatibility of waste with containers; and 40 CFR 264.173, Management of containers.
  - 3. The permittee shall construct and maintain the containment systems for the container storage areas in accordance with the drawings and details included in the Part B Application identified in Section I.B. At a minimum, the containment system must meet the requirements of 40 CFR 264.175.
  - 4. The permittee must comply with the requirements of 40 CFR Part 264, Subpart CC, as applicable.
- C. Tanks and Tank Systems

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- The permitted tank units and their approved waste types are shown in Table V.C.
   Tanks and Tank Systems. The permittee is authorized to operate the permitted tank units for storage and processing subject to the limitations contained herein.
- 2. The permittee shall not place hazardous waste or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a)]
- 3. The permittee shall prevent spills and overflows from the tank or containment system as per the requirements of 40 CFR 264.194(b).
- 4. Secondary containment systems must be provided with a leak-detection system that is operated so that it will detect the failure of either the primary or secondary containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within twenty-four (24) hours.
- 5. The permittee shall report to the executive director within twenty-four (24) hours of detection when a leak or spill occurs from the tank system or secondary containment system to the environment. [40 CFR 264.196(d)(1)] (A leak or spill of one pound or less of hazardous waste that is immediately contained and cleaned-up need not be reported.) [40 CFR 264.196(d)(2)] (Releases that are contained within a secondary containment system need not be reported.)
- 6. Within thirty (30) days of detecting a release to the environment from the tank system or secondary containment system, the permittee shall report the following information to the executive director: [40 CFR 264.196(d)(3)]
  - a. Likely route of migration of the release;
  - b. Characteristics of the surrounding soil (including soil composition, geology, hydrology, and climate);
  - c. Results of any monitoring or sampling conducted in connection with the release. If the permittee finds it will be impossible to meet this time period, the permittee shall provide the executive director with a schedule of when the results will be available. This schedule must be provided before the required thirty (30) day submittal period expires;
  - d. Proximity of downgradient drinking water, surface water, and populated areas; and
  - e. Description of response actions taken or planned.
- 7. The permittee shall submit to the executive director all certifications of major repairs to correct leaks within seven (7) days of returning the tank system to use. [40 CFR 264.196(f)]
- 8. The permittee must comply with the requirements of 40 CFR Part 264, Subpart CC, as applicable.
- D. Surface Impoundments (Reserved)
- E. Waste Piles (Reserved)

F. Land Treatment Units (Reserved)

G. Landfills (Reserved)

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- H. Incinerators (Reserved)
- Boilers/Industrial Furnaces (Reserved) I.
- Drip Pads (Reserved) J.
- K. Miscellaneous Units (Reserved)
- Containment Buildings (Reserved) L.
- VI. Groundwater Detection Monitoring (Reserved)
  - A. Groundwater Monitoring Program (Reserved)
  - B. Construction, Certification, and Plugging (Reserved)
  - C. Detection Monitoring System Operation (Reserved)
  - D. Sampling and Analysis (Reserved)
  - E. Response Requirements for SSI (Reserved)
  - F. Revised Detection Monitoring Program (Reserved)
  - G. Annual Detection Monitoring Reporting Requirements (Reserved)
  - H. Record Keeping Requirements (Reserved)
  - **Compliance Scheduling Requirements (Reserved)** I.
- VII. **Closure and Post-Closure Requirements** 
  - A. Facility Closure
    - 1. The permittee shall follow the closure plan, developed in accordance with 40 CFR Part 264 Subpart G for hazardous waste management units, and the approved Closure Plan for nonhazardous waste management units, and contained in the permit application submittals identified in Section I.B except as modified in Section VII of this permit.

In addition, facility closure shall commence:

- a. Upon direction of the TCEQ for violation of the permit, TCEQ rules, or state statutes; or
- b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to receive, store, process, or dispose of waste materials; or
- c. Upon abandonment of the site; or

- d. Upon direction of the TCEQ for failure to secure and maintain an adequate bond or other financial assurance as required by Provision VII.B.1.
- 2. Request for Permit Modification or Amendment

The permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved closure Plan(s), in accordance with 40 CFR 264.112(c). The written request shall include a copy of the amended closure Plan(s) for approval by the executive director.

3. Time Frames for Modification/Amendment Request Submittal

The permittee shall submit a written request for a permit modification or amendment in accordance with the time frames in 40 CFR 264.112(c)(3).

- 4. Closure Notice and Certification Requirements
  - a. The permittee shall notify the executive director, in writing, at least sixty (60) days prior to the date on which he expects to begin partial or final closure of a surface impoundment, or landfill unit, or final closure of a facility with such a unit; or at least forty-five (45) days prior to the date on which he expects to begin partial or final closure of a facility with processing or storage tanks, container storage, or incinerator units; or at least forty-five (45) days prior to begin partial or final closure of a facility with processing or storage tanks, container storage, or incinerator units; or at least forty-five (45) days prior to the date on which he expects to begin partial or final closure of a boiler or industrial furnace, whichever is earlier. A copy of the notice shall be submitted to the TCEQ Regional Office.
  - b. The permittee shall notify the TCEQ Regional Office at least ten (10) days prior to any closure sampling activity required by the permit in order to afford regional personnel the opportunity to observe these events and collect samples.
- 5. Unless the executive director approves an extension to the closure period, as per the requirements of 40 CFR 264.113(b), the permittee must complete partial and final closure activities within 180 days after receiving the final known volume of hazardous wastes at the hazardous waste management unit or facility.
- 6. As per the requirements of 40 CFR 264.115, within sixty (60) days of completion of closure of each permitted hazardous waste surface impoundment, or landfill unit, and within sixty (60) days of the completion of final closure, the permittee shall submit to the executive director, by registered mail, with a copy to the TCEQ Regional Office, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved closure Plan and this permit. The certification, which shall be signed by the permittee and by a Professional Engineer licensed in Texas, must be in the form described in Provision II.A.6. A closure certification report shall be submitted with the required certifications which includes a summary of the activities conducted during closure and the results of all analyses performed. The certification report shall contain the information required by Provision II.A.6 and 30 TAC Section 350.32 (Texas Risk Reduction Program (TRRP) Remedy Standard A) and 30 TAC Section Completion Report (RACR), as applicable.

Documentation supporting the licensed Professional Engineer's certification shall be furnished to the executive director upon request until the executive director releases the permittee from the financial assurance requirements for closure under 40 CFR 264.143(i).

- 7. For each disposal unit closed after permit issuance, the permittee shall submit documentation to demonstrate compliance with 40 CFR 264.116 (relating to survey plat) and 264.119 (relating to post-closure notices). Documentation to demonstrate compliance with survey plat requirements must be submitted to the TCEQ at the time of submission of the certification of closure. Documentation to show compliance with post-closure notices must be submitted to the TCEQ no later than sixty (60) days after certification of closure.
- 8. Final closure is considered complete when all hazardous waste management units at the facility have been closed in accordance with all applicable closure requirements so that hazardous waste management activities under 40 CFR Parts 264 and 265 are no longer conducted at the facility unless subject to the provisions in 40 CFR 262.16 and 40 CFR 262.17.
- 9. All units, sumps, pumps, piping and any other equipment or ancillary components which have come in contact with hazardous wastes shall either be decontaminated by removing all waste, waste residues, and sludges or be disposed of at an authorized unit at this facility or at an authorized off-site facility.
- 10. All equipment/structures and liners (i.e., debris), contaminated with hazardous waste, and intended for land disposal shall be treated in a manner which meets or exceeds the treatment standards for hazardous debris contained in 40 CFR268.45 or removed and managed at an authorized industrial solid waste management facility. All contaminated dikes and soils intended for land disposal shall be treated in a manner which meets or exceeds the treatment standards for hazardous and soils intended for land disposal shall be treated in a manner which meets or exceeds the treatment standards for hazardous soils contained in 40 CFR 268.49 or removed and managed at an authorized industrial solid waste management facility.
- 11. All hard-surfaced areas within the hazardous waste management unit areas shall be decontaminated and the wash water generated treated and/or disposed at an authorized unit at this facility or at an authorized off-site facility.
- 12. Verification of decontamination shall be performed by analyzing wash water, and as necessary, soil samples for the hazardous constituents which have been in contact with the particular item being decontaminated. In addition, the permittee shall perform visual inspections of the equipment/structures for visible evidence of contamination.
- 13. Unless it can be demonstrated that soil contamination has not occurred, soils shall be sampled and analyzed. Sufficiently detailed analyses of samples representative of soils remaining in non-hard-surfaced areas of the storage and processing facility area shall be performed to verify removal or decontamination of all waste and waste residues.
- 14. Soil and/or wash water samples shall be analyzed using laboratory methods specified in Provision II.B.1.b. Equivalent or modified methods must be specified in the closure plan and have written approval of the executive director prior to

use. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the TCEQ QAPP.

- 15. Decontamination shall be deemed complete when no visible evidence of contamination is observed and when the results from verification sampling and analyses for wash water and soil meet the following criteria:
  - a. Decontamination of hard-surfaced areas used for waste management (such as tank interiors, secondary containment structures, ancillary equipment, sumps, loading/unloading docks, etc.) shall be deemed complete when the concentration of each chemical of concern in the final rinsate sample(s) collected from the wash water is below TCEQ Texas Risk Reduction Program (TRRP), Remedy Standard A, Tier 1 Residential Class 1 Groundwater PCL; and
  - b. Unless it can be demonstrated that soil contamination has not occurred, underlying soils shall be decontaminated or removed to the TRRP Remedy Standard A, Residential PCL, for no further action. If the underlying soils are decontaminated or removed to the PCL for Remedy Standard A, Commercial/Industrial Land use, the permittee shall comply with the institutional controls requirements of 30 TAC Section 350.111, as required.
- B. Financial Assurance for Closure
  - 1. The permittee shall provide financial assurance for closure of all existing permitted units covered by this permit in an amount not less than as shown on Table VII.E.1 Permitted Unit Closure Cost Summary. Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 30 TAC Section 335.179. Financial assurance is subject to the following:
    - a. Adjustments to Financial Assurance Amount
    - (1) At least sixty (60) days prior to acceptance of waste in proposed permitted units listed in Table VII.E.1 - Permitted Unit Closure Cost Summary, the permittee shall increase the amount of financial assurance required for closure by the amounts listed in Table VII.E.1. and shall submit additional financial assurance documentation.
    - (2) The amount of financial assurance for closure of existing units, may be reduced by the amount listed in Table VII.E.1. Permitted Unit Closure Cost Summary, upon certification of closure of an existing permitted unit, in accordance with Provisions VII.A.4 and VII.A.6, and upon written approval of the executive director.
    - b. Annual Inflation Adjustments

Financial assurance for closure, including any adjustments after permit issuance, shall be corrected for inflation according to the methods described by 30 TAC Sections 37.131 and 37.141.

2. The permittee shall submit to the executive director, upon request, such information as may be required to determine the adequacy of the financial assurance.

C. Storage, Processing, Combustion Unit and Land Treatment Unit Closure Requirements

The permittee shall close the storage, processing, combustion units, and Land Treatment units identified in Attachment E within 90 days after receiving the final volume of waste, or a later date approved by the executive director, in accordance with the closure plan incorporated in Section I.B, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), 264.197 (tanks), 264.351 (incinerators), 266.102(e) (11), 266.102(a)(2)(vii), (boilers & industrial furnaces), and 264.280 (land treatment unit), as applicable and the Texas Risk Reduction Program of 30 TAC Chapter 350 and the following requirements.

If all contaminated soils cannot be removed or decontaminated to TRRP Remedy Standard A (RSA), the permittee shall close the tank system and perform postclosure care in accordance with the closure and post-closure requirements for landfills, 30 TAC Section 335.152(a)(5) and 30 TAC Chapter 350, Subchapter B, and an approved contingent closure and post-closure plan no later than sixty (60) days (closure plan) or ninety (90) days (post- closure care plan) from the date that the permittee or the executive director determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of 30 TAC Section 335.174, or no later than sixty (60) days (closure plan) from that date if the determination is made during partial or final closure. Within ninety (90) days of determining that the tank system must be closed as a landfill, the permittee shall submit a permit modification for closure and post-closure as a landfill.

- D. Surface Impoundment Closure Requirement (Reserved)
- E. Landfill Closure and Certification Requirements (Reserved)
- F. Containment Buildings Closure Requirements (Reserved)
- G. Facility Post-Closure Care Requirements (Reserved)
- H. Financial Assurance for Post-Closure (Reserved)

### VIII. Liability Requirements

A. Sudden and Nonsudden Accidental Occurrences

The permittee shall demonstrate continuous compliance with the requirements of 30 TAC Chapter 37 Subchapter P and 30 TAC Section 335.152(a)(6) to maintain liability coverage for sudden accidental occurrences of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense cost.

B. Incapacity of Owners or Operators, Guarantors, or Financial Institutions

The permittee shall comply with 30 TAC Section 37.71, regarding bankruptcy, whenever necessary.

### IX. Corrective Action for Solid Waste Management Units

A. Notification of Release from Solid Waste Management Unit

[IX. - Corrective Action for Solid Waste Management Units, A. - Notification of Release from Solid Waste Management Unit]

If a solid waste management unit (SWMU) or area of contamination not previously addressed in the RCRA Facility Assessment (RFA) dated October 19, 1988, or any release of hazardous waste or hazardous constituents that may have occurred from any SWMU and/or Area of Concern (AOC), that is discovered subsequent to issuance of this permit, the permittee shall notify the executive director in writing within fifteen (15) days of the discovery. Within forty-five (45) days of such discovery, the permittee shall submit an RFA for that unit or release which shall be based on EPA's RCRA Facility Assessment Guidance, October 1986, NTIS PB 87-107769. If the RFA indicates a release or suspected release warrants further investigation, the permittee shall comply with the requirements of Section IX.B.

### B. Corrective Action Obligations

The permittee shall conduct corrective action as necessary to protect human health and the environment for all releases of hazardous waste, hazardous constituents listed in Appendix VIII and/or 40 CFR Part 264, Appendix IX and/or other COCs from any SWMU and/or AOC according to 30 TAC Section 335.167. Corrective action shall consist of an Affected Property Assessment (APA), determination of protective concentration levels, selection of a remedy standard (if necessary), development and implementation of a response action (if necessary), and submittal of required reports according to 30 TAC Chapter 350.

In the case of SWMUs and/or AOCs that have been grandfathered under 30 TAC Chapter 335, Subchapters A and S, Risk Reduction Standards (RRS), corrective action shall consist of the RCRA Facility Investigation (RFI) and if necessary, Interim Corrective Measures (ICM), Baseline Risk Assessment (BLRA), Corrective Measures Study (CMS) and Corrective Measures Implementation (CMI). For grandfathered SWMUs and/or AOCs, the permittee may continue to complete the corrective action requirements under 30 TAC Chapter 335, Subchapters A and S, provided the permittee complies with the notification and schedule requirements pursuant to 30 TAC Sections 335.8 and 350.2(m). If on the basis of the RFI/APA, it is determined that COCs have been or are being released into the environment, the permittee may be required to conduct necessary ICMs and/or corrective actions.

Upon executive director's review of the Corrective Action Program obligations, the permittee may be required to perform any or all of the following:

- 1. Conduct investigation(s);
- 2. Provide additional information;
- 3. Conduct additional investigation(s);
- 4. Investigate an additional unit(s);
- 5. Proceed to the next task in the Corrective Action Program; and/or
- 6. Submit an application for a new compliance plan to implement corrective measures.

Any additional requirements must be completed within the time frame(s) specified by the executive director.

C. Units Requiring Investigation (Reserved)

## D. Variance from Investigation

The permittee may elect to certify that no hazardous waste or hazardous constituents listed in 40 CFR Part 261, Appendix VIII and/or 40 CFR Part 264, Appendix IX are or were present/managed in a unit listed in Section IX.C. in lieu of performing the investigation required in Sections IX.B. and E., provided that confirmation data is submitted for the current and past waste(s) managed in the respective unit. The permittee shall submit such information and certification(s) on a unit-by-unit basis in the time frame required in Section IX.E. for review and approval by the executive director of the TCEQ. If the permittee cannot demonstrate and certify that hazardous waste or hazardous constituents are not or were not present in a particular unit, the investigation required in Sections IX.B. and shall be performed for the unit and/or AOC.

### E. RCRA Facility Investigation (RFI)/Affected assessment (APA)

Within sixty (60) days from the date of issuance of this permit the permittee shall submit a schedule for completion of the RFI(s)/APA for the SWMU(s) or AOC listed in Section IX.C. to the executive director for approval. Also, within sixty (60) days of approval of an RFA Report which recommends further investigation of a SWMU(s) or AOC in accordance with Section IX.A., the permittee shall submit a schedule for completion of the RFI(s)/APA to the executive director for approval. The permittee shall initiate the investigations in accordance with the approved schedule and guidance contained in the EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994 and in accordance with state regulations referenced in Section IX.B. If the permittee elects to use an alternate investigation approach, executive director approval of the workplan will be required prior to initiation of investigation(s). The results of the RFI/APA must be appropriately documented in a report and submitted to the executive director for approval within the time frame established in the approved schedule. The Report shall be considered complete when the full nature and extent of the contamination, the QA/QC procedures and the Data Quality Objectives are documented to the satisfaction of the executive director. The permittee shall propose or conduct Interim Corrective Measures (ICMs), as necessary, to protect human health and the environment.

# F. Remedy Selection

Upon approval of the RFI Report/APA Report (APAR), if it is determined that there has been a release of COCs into the environment, which poses a potential risk to human health and the environment, then the permittee shall propose a remedy in accordance with the 30 TAC Chapter 335, Subchapters A and S, Risk Reduction Standards (if applicable), the TRRP rules, or as otherwise authorized by the executive director. This may require a BLRA and/or CMS Report to be submitted for review - and approval within the time frame(s) specified by the executive director. For facilities that are grandfathered under 30 TAC Chapter 335, Subchapter S, this report shall address RRS requirements, and the applicable items contained in the EPA publications referenced in Section IX.E. or other guidance acceptable to the executive director. For projects conducted under TRRP, the risk assessment process shall be addressed in the APAR and the evaluation of corrective measures shall be conducted as part of the remedy standard selection process.

1. Corrective Measures Implementation (CMI)/Remedial Action Plan (RAP). The permittee shall submit a RAP within the time frame required by the executive

director, not to exceed 180 days from the date of approval of the APAR. The RAP shall address all of the items for Corrective Measures Implementation (CMI) Workplans contained in the U.S. EPA publication EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994. If the RAP does not propose a permanent remedy, then a RAP shall be submitted as part of a new Compliance Plan application or as a modification/amendment application to an existing compliance plan. The RAP shall contain detailed final engineering design and monitoring plans and schedules necessary to implement the selected remedy. Implementation of the corrective measures shall be addressed through a new and/or a modified/amended Compliance Plan. Upon installation of a corrective action system based upon the approved RAP, the permittee shall submit a RACR. Approval of the RACR places the SWMU in a status of conditional No Further Action, reflecting that the remedy is in place, controls must be maintained, and effectiveness must be monitored. To report the progress of the corrective measures, the permittee shall submit the Post-Response Action Care Report (PRACR) to the TCEQ in accordance with the schedule specified in the Compliance Plan to show the progress of actions taken.

If on the basis of the RFI and/or BLRA and/or CMS or APA, it is determined that there is a risk to human health and/or the environment, then the permittee shall submit for approval a CMI Work Plan(s) or propose a response action (TRRP) within 180 days of receipt of approval of the RFI and/or BLRA/CMS Report or APAR unless otherwise extended by the executive director. The CMI Workplan shall address all of the applicable items contained in the EPA publications referenced in Section IX.B. or other guidance acceptable to the executive director. Response actions, including TRRP Remedy Standard A or Risk Reduction Standard (RRS) No. 2, cannot be self-implemented as normally allowed by TRRP or RRS because under HSWA corrective action requires the CMI workplan to be reviewed prior to approval and public participation (see also Provision IX.F.2). For TRRP response actions, the permittee shall submit a RAP in accordance with schedules and requirements of 30 TAC Chapter 350. The CMI Workplan or RAP shall contain detailed final proposed engineering design, monitoring plans and schedule to implement the selected remedy and assurances of financial responsibility for completing the corrective action. Upon completion of the response action, the permittee shall submit a CMI Report or RACR to the TCEQ for review and approval. The CMI Report shall address all the applicable items in the EPA publications EPA/520-R-94-004, OSWER Directive 9902.3-2A, RCRA Corrective Action Plan (Final), May 1994 or other guidance acceptable to the executive director. The RACR shall address all the applicable items in Title 30 TAC Chapter 350 and applicable guidance.

If the response action does not propose a permanent remedy (e.g., RRS No. 3 or Remedy Standard B), or the response action requires long-term groundwater monitoring in order to demonstrate attainment of a permanent remedy (e.g., monitored natural attenuation to demonstrate Remedy Standard A), the permittee must submit a CMI Workplan or RAP as part of a Compliance Plan application to establish corrective action and provide financial assurance to satisfy the requirements of 30 TAC Section 335.167. The Compliance Plan application must be submitted within 180 days of approval of the CMS/BLRA or APAR. The permittee may propose an alternative schedule to be approved by the executive director to incorporate several approved CMI Workplans or RAPs into a single Compliance Plan application when CMI Workplans or RAP schedules coincide. Implementation of the corrective measure(s) shall be addressed through issuance of a new Compliance Plan.

To report the progress of the corrective measures, the permittee shall submit to the TCEQ CMI Progress Reports or RAERs (TRRP) on a semi-annual basis, or schedule approved by the executive director in the CMI Workplan or RAP. For waste and contaminated media approved to remain in place above background or health-based concentration levels after completion of the corrective action program, the permittee shall record an instrument in the county deed records for the facility to specifically identify the areas of contamination exceeding background or health-based values. The deed certification shall follow the requirements of 30 TAC Sections 335.560 and 335.569 or 30 TAC Section 350.111, where applicable. The permittee shall within ninety (90) days of approval for the final corrective action submit to the executive director for review and approval the required proof of deed notice.

- 2. Public Notice
  - a. The permittee shall conduct public notice when:
- (1) CMI Work Plan or RAP is submitted to the executive director, in accordance with Provision IX.F.1., which contains the proposed final corrective measure for SWMU(s) and/or AOC(s) from which a release has occurred, and with proposed institutional control (as applicable). This process occurs through the submittal of an application for a new Compliance Plan; or
- (2) If on the basis of the RFI/BLRA or APAR required by Sections IX.E. and IX.F., it is determined the release from SWMU(s) and/or AOC(s) meets the performance standards under RRR or TRRP such that no remedy is needed, there is no risk to the human health and/or the environment, and the permittee seeks approval of no further action determination by the executive director. This process occurs through the corrective action process.
- b. No public notice is required when it is determined based on the results of the RFA required by Section IX.A., or the RFI or APAR required by Section IX.E., that no release occurred from a SWMU and/or AOC. The purpose of the public notice is to give the members of the public the opportunity to submit written comments on the proposed corrective measure(s) or proposed no further action determination.
- G. Compliance Plan (Reserved)

# X. Air Emission Standards

- A. General Conditions
- 1. Emissions from this facility must not cause or contribute to a condition of "air pollution" as defined in Section 382.003 of the Texas Health and Safety Code Ann. or violate Section 382.085 of the Texas Health and Safety Code Ann. If the executive director of the TCEQ determines that such a condition or violation occurs, the permittee shall implement additional abatement measures as necessary to control or prevent the condition or violation.
- 2. The permittee shall include in the Biennial Report, required in Provision II.B.7., a statement that hazardous waste management units or associated ancillary equipment

[X. - Air Emission Standards, A. - General Conditions]

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> at this facility are not subject to any of the requirements in Section X.B.5 and X.B.6, if these requirements are not applicable to any hazardous waste management units or associated ancillary equipment at this facility. If at any time any hazardous waste management units or associated ancillary equipment become subject to the requirements in Section X.B.5 and X.B.6, the permittee must immediately comply with these requirements.

- 3. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on Attachment E Emission Sources—Maximum Allowable Emission Rates. [30 TAC 116.115(b)(2)(F)].
- 4. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions.
- 5. Facilities covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)].
- 6. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)].
- 7. The appropriate regional office of the TCEQ and Harris County Pollution Control Department (HCPCD) shall be notified prior to the start of any governmentally required air monitoring of the facility units authorized by this permit in such a manner that a representative of the TCEQ and HCPCD may be present during monitoring.
- 8. The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit;

and retain information in the file for at least five years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)].

- 9. Permittee shall maintain a duplicate record of a current inventory of materials regulated under this permit at an offsite location.
- B. Federal Applicability
  - 10. Process Vents: The permittee must comply with the requirements of 30 TAC Section 335.152(a) (17)/40 CFR Part 264 Subpart AA, as applicable.
  - 11. Equipment Leaks: The permittee must comply with the requirements of 30 TAC Section 335.152(a) (18)/40 CFR Part 264, Subpart BB, as applicable.
  - 12. Tanks, Surface Impoundments, and Containers: The permittee must comply with the requirements of 40 CFR Part 264 Subpart CC, as applicable.
- C. Process Vents, Containers, and Tanks
  - 13. Containers of hazardous waste shall be opened only for the purposes authorized by the terms and conditions of this permit.
  - 14. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Storage tanks must utilize submerged fill pipes.
  - 15. Capacity and type of wastes stored in the containers and tanks is limited to the representation as listed in Attachment D, Table V.B Container Storage Area and Table V.C Tanks and Tank System of the Permit Renewal application dated March 04, 2023. Sample calculations that were used to determine the MAERT limits in the permit renewal application Industrial Hazardous Waste (IHW) One Stop Permit Renewal application dated March 04, 2023, shall be attached to a copy of this permit at the plant site.
- D. Carbon Adsorption System (CAS)
  - 16. Process tanks PT-2 and PT-11 shall vent through a carbon adsorption system designated as Carbon Adsorber 010211 (EPN: CAR010211). The lab pack fume hoods (FIN: CS-1) shall vent through a carbon adsorption system designated as Carbon Adsorber 30 (EPN: CAR30). The lab pack fume hoods (FIN: CS-3) shall vent through a carbon adsorption system designated as Carbon Adsorber 30 (EPN: CAR30). The lab pack fume hoods (FIN: CS-3) shall vent through a carbon adsorption system designated as Carbon Adsorber 30 (EPN: CAR30). The following FINs: Process tanks PT-2 and PT-11, and the lab pack fume hoods shall vent through a carbon adsorption system (CAS EPN: CAR010211, and CAR30 respectively).
    - A. The carbon adsorbers shall be sampled once each calendar week when they are in use. The sampling point shall be in the stack after passing through the carbon. Sampling shall be performed with the blower on and when:
      - (a) Organic liquids are being transferred in the fume hoods connected to two carbon beds in parallel EPN: CAR 30.
- (b) Waste is present in Tank FIN: PT-2 and/or FIN: PT-11 connected to EPN: CAR010211.

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Permit No. 50267 Permittee: SET Environmental, Inc.

- B. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), photo ionization detector (PID) or a TCEQ-approved alternative detector. The instrument/FID or PID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR 60, Appendix A). Sampling and analysis for VOC breakthrough shall be performed as follows:
  - (a) Immediately prior to performing sampling, the instrument/FID shall be calibrated with zero and span calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be methane at a concentration within  $\pm$  10 percent of 100 ppmv and certified by the manufacturer to be  $\pm$  2 percent accurate. Calibration error for the zero and span calibration gas checks must be less than  $\pm$  5 percent of the span calibration gas value before sampling may be conducted.
  - (b) The sampling point shall be in the exhaust stack near the outlet of the carbon adsorber. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.
  - (c) During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least 5 minutes, recording 1-minute averages, while the control device is in use as defined in X.D.16.A.
- C. Breakthrough shall be defined as the highest 1-minute average measured VOC concentration at or exceeding 100 ppmv. When the condition of breakthrough of VOC from the carbon adsorber occurs (1) Cease operations (i.e., no further transfer of waste between containers or no further additions to tanks PT-2 or PT-11), (2) Turn off the blower drawing air into the carbon canister, (3) Replace spent carbon with new carbon. Operations that vent organic air contaminants to the carbon adsorber may not be resumed until the carbon has been replaced. Sufficient new activated carbon shall be maintained at the site to replace spent carbon.
- D. Records of the CAS monitoring maintained at the plant site, shall include (but are not limited to) the following:
  - A. Sample time and date.
  - B. Monitoring results (ppmv).
  - C. Corrective action taken including the time and date of that action.
  - D. Process operations occurring at the time of sampling.
- E. Alternate monitoring or sampling requirements that are equivalent or better may be approved by the TCEQ Regional Manager. Alternate requirements must be approved in writing before they can be used for compliance purposes.
- E. Scrubbers: FIN: SCR010211, EPN: SCR 36 and EPN: SCR 30, EPN: SCR 36 / SPCAU36, EPN: SCR12 and FIN: WPS12
  - 17. Scrubber (FIN: SCR010211, EPNs: SCR 36 and SCR 30, SCR12 and FIN: WPS12) shall operate with no less than the efficiencies and maximum outlet (ppmv) as listed for contaminants identified in Attachment A on an hourly average.
  - 18. The minimum liquid flow to the scrubber's shall be as listed in the Table I. below. For Scrubber EPNs EPN: SCR010211, SCR 30, SCR36 and EPN: SCR12, the minimum liquid

flow to the absorber shall be as listed in the Table I. below. The circulation rate shall be monitored and recorded as specified in Table I.

The flow monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, or at least annually, whichever is more frequent, and shall be accurate to within 2 percent of span or 5 percent of the design value.

Quality assured (or valid) data must be generated when the (facility generating emissions as specified in X.D.16.A) is operating except during the performance of a daily zero check. Loss of valid data due to periods of monitor breakdown, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in hours) that the (facility generating emissions as specified in X.D.16.A) operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

19. The scrubbing solution shall be maintained at or above a pH of 10 as listed in the Table I. below, when the scrubbers is charged with a basic material to control emissions. For Scrubber EPNs SCR010211, SCR30, SCR 36 and SCR12, the scrubbing solution shall be maintained at or above a pH of 10 when the scrubbers are charged with a basic material to control emissions. The pH shall be continuously analyzed and recorded at the frequency specified in Table 1. below. Each monitoring device shall be cleaned with an automatic cleaning system, or cleaned weekly using hydraulic, chemical, or mechanical cleaning. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, or at least weekly, whichever is more frequent, and shall be accurate to within  $\pm$  0.5 pH unit.

Quality assured (or valid) data must be generated when the (facility generating emissions as specified in X.D.16.A) is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in hours) that the (facility generating emissions as specified in X.D.16.A) operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgement and the methods used recorded.

### XI. Compliance Plan (Reserved)

[XI. - Compliance Plan (Reserved), E. - Scrubbers: FIN: SCR010211, EPN: SCR 36 and EPN: SCR 30, EPN: SCR 36 / SPCAU36, EPN: SCR12 and FIN: WPS12]

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	Table III.D. – Inspection Schedule	
Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	<b>Frequency of Inspection</b>
TANKS		
Valves in Gas/Vapor or Light Liquid Service	Leaks [40 CFR §264.1063(b) & Method 21 Leak Detection]	Monthly <sup>1</sup>
Valves	Leaks/Corrosion	Each Workday
Other Tank Connectors (e.g., Flanges, Plugs, Pressure Release Device, Agitator, Conservation Vent, Sample/Gauge Hatch, Man-way)	Leaks [Visual or Olfactory Evidence]	Each Work Day²
Open Ended Lines	Cap Missing	Each Workday
Tank Level	Overfilling	Each Workday
Tank Shell	Leaks/Corrosion	Each Workday
Temperature	Improper operation	Each Workday
Temperature Probe	Improper calibration	Annually
pH Probe	Improper calibration	Annually
Detailed Integrity Testing	Loss of tank integrity	Every 3 Years
Secondary Containment Vault and Lining	Loss of Containment Integrity (e.g., Cracks, Erosion, Damaged sealant, Leaks)	Each Workday
	Pump Seal Leaks [Visual Evidence]	Weekly
FUMPS IN LIGHT LIQUID SERVICE	Pump Seal Leaks [40 CFR §264.1063(b) & Method 21]	Monthly
CONTAINER STORAGE, LOADING AND UNLOADING AREAS	UNLOADING AREAS	
Containers Covers and Closure Devices	Cracks, Holes, Gaps or Other Open Spaces	When Received <sup>3</sup>
Containers	Leaks	Weekly
	Corrosion	Weekly
	Sever dents that could predispose the drum to leak.	Weekly
	Unsecured closures	Weekly
	Cylinders unsecured	Weekly
	Unstable stacking	Weekly
	Inadequate aisle space between double rows of drums (30" Min)	Weekly
Concrete Slab of Storage Areas	Cracks	Weekly

# Table III.D. - Inspection Schedule

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Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Containment Curbs of Storage Areas	Cracks	Weekly
Roof Drains	Holes causing rain to enter storage area	Weekly
FIRE SUPPRESSION SYSTEMS		
Pull Stations (9)	Physical Damage	Weekly
Strobes/Bells/Horns	Physical Damage	Weekly
Supply Water Level	Inadequate Supply (system not charging)	Weekly
Emergency Exits	Obstructions/Closed/Operability	Weekly
Dry Chemical Cylinder Charge	Not Fully Charged	Weekly
Automatic Overhead Doors	Inoperable	Annually
Dry Chemical System	Detailed Integrity Testing	Annually
High Expansion Foam System	Detailed Integrity Testing	Annually
PORTABLE FIRE EXTINGUISHERS		
Gauge	Charge (In Green Operating Range)	Weekly
Complete Unit	Detailed Integrity Testing	Annually
EMERGENCY COMMUNICATION SYSTEM	Operability	Weekly
SPILL CONTROL EQUIPMENT	Inadequate Inventory or Condition	Monthly
SAFETY EQUIPMENT	Inadequate Inventory and Condition	Weekly
FIRST AID KIT	Inadequate Inventory	Weekly
SAFETY SHOWER/EYE WASH	Inoperable	Monthly
DECONTAMINATION CHEMICALS	Inadequate Inventory	Monthly
GATES AND FENCES		
Fence	Holes may be upon a set of the se	Monthly
Signs	Missing or Not Legible	Monthly
AIR EMISSIONS SYSTEMS		
Activated Carbon	Breakthrough (100 ppm Total Organics)	Weekly
Caustic Scrubbers	aj provinse stratinganda a terrange entre calatore en accordente entre entre entre entre entre entre entre entre a 2010/05/2001 k.00.01/201	and a statistic distribution of the state of
(SCR 30 – Lab Pack)	Alkalinity <sup>4</sup>	Daily - Monthly
(SCR 36 – OC)	pH <sup>5</sup> Range: <4 or > 10	Hourly - Daily

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Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	<b>Frequency of Inspection</b>
(SCR 12 - Scrubber to PT-12)	Flow Rate <sup>6</sup>	Daily at start-up
(SCR 010211 – PT-2, PT-11)	Oxidation Potential <sup>7</sup>	Daily at start-up

# FOOTNOTES

- Any valve for which a leak is not detected for two successive months may be monitored the first month of every succeeding quarter, beginning with the next If evidence of a potential leak (found by visual, audible, olfactory or other means) is found, flanges and other connectors will be monitored with 5 days in quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for two successive months. ÷
  - accordance with Method 21. сi
- Container covers and their closure devices will be visually inspected when received and if a container remains at the facility beyond one year (i.e., in the case of reusable containers) this inspection will be conducted annually. က်
  - Alkalinity will be tested daily at start-up for all caustic scrubber except SCR 30 which will be monitored monthly to estimate time the scrubbing solution will remain above pH 10. 4
- At start up pH will be monitored for all caustic scrubbers. Hourly pH measurements will be taken for SCR 010211 (Chemical Treatment System Scrubber) while material is being added to a tank system connected to the scrubber. If the scrubber is charged with a basic material, the pH of the scrubbing material must be maintained above 10. If the scrubber is charged with an acid (e.g., appropriate when neutralizing Ammonia), the pH must be maintained below 4.0. ல்
- Flow rate is based on a pressure gauge reading on the discharge of the spray pump or a calibrated unit designed to read in gallons per minute (e.g., in-line turbine flow meters). ق
  - If the scrubber is charged with a reducing agent (e.g., Sodium bisulfite) or oxidizing agent (e.g., Sodium hypochlorite, Potassium permanganate), Oxidation Reduction Potential (ORP) in millivolts will be used to determine when the scrubbing solution reaches 1% concentration and requires recharging. ORP will be ested at start-up prior to treating oxidizing or reducing compounds in the system. 2.

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No.	Waste	EPA Waste Codes	TCEQ Waste Codes (Form Code for Off-site Waste)	TCEQ Waste Classifications (H, 1, 2, 3 <sup>1</sup> )
200	and the second	On-Site and Off-site Waste	aste	
1.	Oxidizers, solid, liquid and	Doo1, Doo2, Doo4-Do11, Do18-	101, 102, 103, 104, 105, 113, 114, H	I
2	sludges	Do43, Applicable P & U Codes	119, 319,	
5.	Corrosive wastes	Doo2, Doo4-Do11, Do18-Do43,	103, 104, 105, 106, 109, 110, 113, H	I
	guaratore country when Soburt Protecto	K062 Annlicahle P & II Codes	114, 115, 119, 219, 309, 501, 502, FOR FOR FOR F11	
		Dec. Dec. Dec Dece Heel	Τ	,
က်	Metallic salts, solids solutions	D004-D011, D018-D043, F006,	Ę	H, 1
	and sludges	F012,F019, K062, Amiliachla D & II Cadad	114, 115, 119, 198, 302, 303, 304, 2007 2008 200 210 216	1913) 2014 - 2014
		Applicable I & 0 codes	303, 300, 30/, 309, 310, 312, 310,	
	lorenosi gradsta onatausto (p. 1.	24 ones	502, 505, 500, 507, 508, 510, 511,   514,	
4	Ignitable liquids, solvents, and	Doo1, Doo2, Doo4-Do11, Do18-	201, 202, 203, 204, 205, 206, 207, H, 1	H, 1
	other organic liquids	K086	208, 209, 210, 211, 212, 219, 296,	
		Applicable P & U Codes	299,	
ல்	Ignitable and other solids and	D001,D002,D004-D011,D018-D043,	301, 307, 403, 404, 406, 407, 409, F	I, 1,
	sludges	K048-K052, K086, F001-F005, F037,488, 489, 490, 493, 503, 601, 602,	488, 489, 490, 493, 503, 601, 602,	
			603, 604, 605, 606, 609, 695,	
				A
6.	Reactive solids, liquids, and sludges	D001, D002, D003, D004-D011, 107, 108, 111, 112, 302, 307, 309, D018-D043, F007-F011, Applicable P 310, 312, 313, 314, 315, 393, 405,	107, 108, 111, 112, 302, 307, 309, H 310, 312, 313, 314, 315, 393, 405,	H
	)	& U Codes	493, 506, 507, 508, 509, 597, 605, 609, 697,	
7	Non-reactive Cyanides and Sulfides	Doo2, Doo4-Do11, Applicable P & U Codes	107, 108, 302, 312, 506, 507, 508, H	I
8.00	Metallic Mercury	Doo9, U151	117, H	I
9.	Compressed Gases	Doo1, Doo2, Doo3, Doo4-Do11,	701, 801,	H, 1
		Do12-Do16, Do18-Do43, Applicable		
		P & U Codes		
10.	Pesticides		119, 201, 202, 203, 204, 205, 207, H, 1	I, 1
		Do16, D018-D043, Applicable P & U Codes	319, 401, 402, 601, 602, 609,	

Table IV.B. – Wastes Managed In Permitted Units

Classifications **TCEQ Waste**  $(H, 1, 2, 3^{1})$ Η н Ξ H Η Η 2 -Waste Generated On-Site from the Management of Commercial Off-Site Waste (Off-site Waste) 301, 302, 303, 304, 305, 306, 307, H, 1, 2 Н, 1 Η, 1 494, 495, 496, 497, 498, 499, 598, 599, 698, 699, 390, 391, 392, 393, 501, 502, 503, 297, 298, 394, 395, 397, 398, 399, 505, 504, 506, 507, 508, 510, 511, D004-D011, D012-D016, D018-D043 308, 309, 310, 311, 319, 388, 389, (Form Code for Off-site 101, 102, 113, 114, 115, 119, 199, **TCEO** Waste Codes 001, 002, 003, 004, 009, 514, 515, 516, 519, 597,Waste) 308 308 404 409 299, 310 801 D004-D016, D018-D043, F001-F005, 316 115 D018-D043, F001-F005, Applicable P Doo4-Do16, Do18-Do43, Foo1-Foo7 D016, D018-D043, Applicable P & U Doo4-Do16, Do18-Do43, P and U-Doo4-Do43, Foo1-Foo7, P and U-D002, D004-D016, D018-D043, P Doo1, Doo2, Doo3, Doo4-Do16, Doo1, Doo2, Doo4-Do11, Do12-Doo1, Doo4-Do16, Do18-Do43, **EPA Waste Codes** Applicable P and U Codes Applicable P and U Codes Applicable P & U Codes and U-Codes P & U Codes & U Codes Codes Codes Codes None None N/AAbsorbents from spill clean-up Filtered or Precipitated Solids Inorganic solids and sludges **Polychlorinated Biphenyls** Empty Containers (Metal) **Emissions Control Waste** Emissions control waste Empty containers (For PPE (Contaminated) Waste Spent Caustic) Spent Carbon) Aerosol Cans Wastewater Lab Packs Disposal) 14. No. 13. 11. 12. 22 16  $\frac{18}{18}$ 19 20 15 17 21

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Classifications TCEQ Waste  $(H, 1, 2, 3^1)$ Η H Η H H 2 Η Η H ----Ч --(Form Code for Off-site TCEQ Waste Codes Waste) 110, 204 409 488 489 310 407 102 319 102 192 319 319 114 114 114 114 113 Doo4-Do11, Do18-Do43, Foo1-Foo5 Doo1, Doo4-Do43, Foo1-Foo5, P & Doo1, Doo2, Doo4-Do16, Do18-Doo1, Doo2, Doo4-Do16, Do18-Applicable P and U-listed waste. D002, D004-D011, P & U Codes Do43 Applicable P and U-codes **EPA Waste Codes** Doo1, Doo3, Doo4 –Do43, Applicable P and U-Codes Do43, Foo1-Foo5 D001-D043 **U-Codes** None Sandblast waste from scouring Rinse Water (Cleaning Drums Rinse water (Cleaning Drums Rinse Water (Power washing **Chemical Treatment Process** concrete and other surfaces. Rinse Water (Cleaning Non-Empty Containers (Plastic) Laboratory Waste Liquids Laboratory Waste Solids PPE (Uncontaminated) Rinse Water (Routine contaminated floors) Waste Hazardous Drums) **Treatment Solids** with Inorganics) Used Oil Filters Broken Pallets Housekeeping) with Organics) Vermiculite Rainwater Water Silica No. 38 28 30 32 35 36 37 39 23 24 25 26 29 33 34 27 31

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Table IV.C. – Sampling and Analytical Methods

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Waste	Sampling	<b>V</b> 1	Finomonia	Danamatan	I est Methoa	Acouracia
No <sup>1</sup>	Location	Method	formantaur	Japaninini	(or equivalent)	Level
1.	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D 4979-95	N/A ± Result
	Receiving Area equivalent	equivalent	waste stream in each shipment within 24	Cyanide5	ASTM D4282-95	$N/A \pm Result$
			containers and prior to	Sulfide5	ASTM D 4978-89	$N/A \pm Result$
			placement in tanks.	pH	SW-846 9041A	1
					SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D 1298-99	0.1
		,		VO Content <sup>8</sup>	40 CFR 60 - 25D <sup>10</sup>	1 ppm
				Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
2.	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D 4979-95	N/A Observation
	Receiving Area equivalent	equivalent	waste stream in each shipment within 24	Flash Point or	SW-846 1020A	$5^{\circ}F$
			hours of unloading containers and prior to	Flammability Potential <sup>2</sup>	ASTM D 4982-95	$N/A \pm Result$
			placement in tanks.	Oxidizer Screen	ASTM D 4981-95	$N/A \pm Result$
				Cyanide5	ASTM D4282-95	$N/A \pm Result$
				Sulfide5	ASTM D 4978-95	$N/A \pm Result$
				Hq	SW-846 9041A	1
					SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D1298-99	0.1
				VO Content <sup>8</sup>	40 CFR 60 - 25D <sup>10</sup>	1 ppm
				Organic Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
3.	Container Peceiving Area	SW-846 or aquivalent	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	INCICE ATTIC	cylurvaticut	hours of unloading containers and prior to	Flash Point or	SW-846 1020A	5°F
			placement in tanks.	Flammability Potential <sup>2</sup>	ASTM D4982-95	$N/A \pm Result$
	,			Oxidizer Screen	ASTM D 4981-95	$N/A \pm Result$
				Cyanide	ASTM D4282-95	$N/A \pm Result$
				Sulfide	ASTM D4978-95	$N/A \pm Result$
				Hd	SW-846 9041A	1
					SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D1298-99	0.1
				Presence of Liquids <sup>12</sup>	SW-846 9095	$N/A \pm Result$

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Waste No¹	Sampling Location	Sampling Method	Frequency	Parameter	Test Method (or equivalent)	Desired Accuracy Level
				VO Content <sup>8</sup>	40 CFR 60-25D <sup>10</sup>	1 ppm
				Vapor Pressure9	ASTM D5191 <sup>10</sup>	± 76.6 kPa
	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	Receiving Area		waste stream in each shipment within 24	Flash Point or	SW-846 1020A	5°F
			hours of unloading containers and prior to	Flammability Potential	ASTM D 4982-95	$N/A \pm Result$
		- - 	placement in tanks.	BTU Content? Education of	ASTM D5468-95	500 BTU/lb
	- - - -			Chloride and/or	SW-846 9253 <sup>10</sup> or 9212 <sup>10</sup>	0.1%
				Fluoride	SW-846 9214	0.1%
				Water Content	ASTM E 203-96	1%
				$\mathbf{pH}$	SW-846 9041A	1
		;			SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D 1298-99	0.1
				Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	Receiving Area		waste stream in each shipment within 24	Flash Point or	SW-846 1020A	5°F
			hours of unloading containers and prior to	Flammability Potential	ASTM D4982-95	$N/A \pm Result$
			placement in tanks.	BTU Content7	ASTM D5468-95	1
				Chloride and/or	SW-846 9253 <sup>10</sup> or 9212 <sup>10</sup>	0.1%
				Fluoride	SW-846 9214	0.1%
				Specific Gravity	ASTM D1298-99	0.1
	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	Receiving Area equivalent	equivalent	waste stream in each shipment within 24	Cyanide	ASTM D4282-95	$N/A \pm Result$
			hours of unloading containers and prior to	Sulfide	ASTM D4978-95	$N/A \pm Result$
			placement in tanks.	pH	SW-846 9041A	1
					SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D1298-99	0.1
	· · ·			VO Content <sup>8</sup>	40 CFR 60-25D <sup>10</sup>	1 ppm
				Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	Receiving Area	equivalent	waste stream in each shipment within 24	Cyanide	ASTM D4282-95	N/A ± Result
			hours of unloading containers and prior to	Sulfide	ASTM D4978-95	$N/A \pm Result$
1.0 8.1 9			placement in tanks.	pH	SW-846 9041A	1
		-			SW-846 9040B	0.1

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Permit No. 50267 Permittee: SET Environmental, Inc.

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Waste Sampfing         Sampfing         Sampfing         Frequency         Frequency         Test Method         Au           Nor         Location         Method         Personnet         (or equivalent)         10           8.         Container         SW-346 or         Konthers         Nor Applicable         100         100           8.         Container         SW-346 or         Ko sample will be taken frowewt.         Pysical Description         ASTM Daysy-95         100           9.         Not applicable.         Det othe physical state of this material and interent hazards in sampling and analysis, this material will act soft in material and interent hazards in sampling and analysis, this material will act soft in material and interent hazards in sampling and analysis, this material will be taken for each burst within al         Physical Description         ASTM Daysy-95         N/A OI           10.         Receiving Area         equivalent         Physical Description         ASTM Daysy-95         N/A OI           10.         Receiving Area         equivalent         SW-346 or         Individual samples will be taken for each burst within al         Physical Description         ASTM Daysy-95         N/A OI           10.         Receiving Area         equivalent         Baser physical Description         ASTM Daysy-95         N/A OI           10.         Receiving Area <th></th> <th></th> <th></th> <th></th> <th></th> <th>, , , , , , , , , , , , , , , , , , ,</th> <th>Doning</th>						, , , , , , , , , , , , , , , , , , ,	Doning
Image: container         Specific Greerity or Bulk Density         ASTM Drag6-85           Container         SW-846 or         No sample will be taken. However, Vapor Presenters         Vapor Presenters         ASTM D4979-95           Container         SW-846 or         No sample will be taken. However, inspected and documented visually inspected and documented visually Receiving Area equivalent         ASTM D4979-95           Container         SW-846 or Individual samples will be taken for each hours of unloading containers and prior to placement in taths.         Physical Description         ASTM D4979-95           Container         SW-846 or Individual samples will be taken for each hours of unloading containers and prior to placement in taths.         SW-846 or 204.4         SW-846 or 204.4           Container         SW-846 or Individual samples will be taken for each hours of unloading containers and prior to hours of unloading containers and prior to hours of unloading containers and prior to placement in tatks.         SW-846 or 204.4         SW-846 or 204.4           Not applicable. Due to the physical containers and prior to hours of unloading containers and prior to hours of unloading containers and prior to hours of unloading conta	Waste No <sup>1</sup>		Sampling Method	Frequency	Parameter	Test Method (or equivalent)	Accuracy Level
Specific chrity or Bulk Density         ASTM Days-95           Container         SW-846 or         No sample will be taken. However, inspected upon receipt.         Vagor Pressure <sup>6</sup> ASTM Days-95           Receiving Area equivalent         SW-846 or         No sample will be taken. However, inspected upon receipt.         Physical Description         ASTM Days-95           Not applicable.         SW-846 or         No sample will be taken for each         Physical Description         ASTM Days-95           Not applicable.         SW-846 or         Individual samples will be taken for each         Physical Description         ASTM Days-95           Container         SW-846 or         Individual samples will be taken for each         Physical Description         ASTM Days-95           Container         SW-846 or         Individual samples will be taken for each         Physical Description         SW-846 or41A           Container         SW-846 or         Individual samples will be taken for each         Physical Description         SW-846 or41A           Container         SW-846 or         Individual samples will be taken for each         Physical Description         SW-846 or41A           Receiving Area         equivalent         nours of unloading containers and prior to         Physical Description         SW-846 no23DA           Receiving Area         equivalent         Not appli							
You Contents         You Contents         40 CKM Daggyre           Container         SW-846 or Receiving Area equivalent inspected and docimers will be visually inspected and commers will be visually inspected and commerce will be taken for each busis of unloading containers and prior to placement in tanks.         Physical Description         ASTM Dag79-95           Container         SW-846 or hours of unloading containers and prior to busis of unloading containers and prior to bus					Specific Gravity or Bulk Density	ASTM D1298-85	0.1
Container         Nampe will be taken. However, Receiving Area equivaled inspected upon receipt.         Vagoe Pressure <sup>6</sup> ASTM Dagot <sup>106</sup> Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.         ASTM Dagry-95           Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.         ASTM Dagry-95           Container         SW-846 or hours of unloading containers and prior to be avaite stream in each shipment within 24 bours of unloading containers and prior to placement in tanks.         Physical Description         ASTM Dagry-95           Container         SW-846 or hours of unloading containers and prior to placement in tanks.         Physical Description         ASTM Dagry-95           Container         SW-846 or hours of unloading containers and prior to placement in tanks.         Physical Description         SW-846 op.04.04           Not applicable. Due to the physical configuration of this waste, sampling and analysis is on practical.         SW-846 09.02.0A         SW-846 02.02.0A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is an ot practical.         SW-846 02.02.0A         SW-846 02.02.0A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         SW-846 02.02.0A         SW-846 02.02.0A           Not applicable. Due to the physical configuration of this waste, sampli					VO Content <sup>8</sup>	40 CFR 60-25D <sup>10</sup>	1 ppm
Container       SW-846 or inspected and containers will be visually inspected and container of containers will be taken inspected upon recepit.       Physical Description       ASTM 04979-956         Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.       ASTM 04979-956         Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.       ASTM 04979-956         Container       SW-846 or waste stream in each shipment within 2.4 hours of unbading containers and prior to placement in tanks.       Physical Description       ASTM 04979-956         Container       SW-846 or nutainer       Individual samples will be taken for each hours of unbading containers and prior to placement in tanks.       SW-846 or 2004.       ASTM 04979-956         Container       SW-846 or nutainer       Individual samples will be taken for each hours of unbading containers and prior to placement in tanks.       SW-846 or 2004.       ASTM 04979-956         Not applicable. Due to the physical bescription       ASTM 04979-956       ASTM 04979-956       ASTM 04979-956         Not applicable. Due to the physical bescription       ASTM 04979-956       ASTM 04979-956       ASTM 04979-956         Not applicable. Due to the physical bescription       ASTM 04979-956       ASTM 04979-956       ASTM 04979-956         Not applicable. Due to the physical bescription       SW-846 for 020. <td></td> <td></td> <td></td> <td></td> <td>Vapor Pressure<sup>9</sup></td> <td>ASTM D5191<sup>10</sup></td> <td>± 76.6 kPa</td>					Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.       Not applicable. Due to the physical state of this material and inherent hazards in sampling and analysis, this material will not be sampled.     ASTM D4979-95       Container     SW-846 or waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.     Physical Description     ASTM D4979-95       Container     SW-846 or waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.     Physical Description     ASTM D4979-95       Container     SW-846 or Individual samples will be taken for each hours of unloading containers and prior to heach hours of unloading containers and prior to hours of unloading container and prior to hours of unloading containers and prior to hours of unloadi	∞.	Container Receiving Area	SW-846 or equivalent	No sample will be taken. However, contents of containers will be visually inspected and documented visually inspected upon receipt.	Physical Description	ASTM D4979-95	N/A Observation
Container         SW-846 or waste stream in each shipment within 24         Physical Description         ASTM D4979-95           Receiving Area         equivalent         waste stream in each shipment within 24         Physical Description         ASTM D4979-95           Receiving Area         equivalent         in taults.         SW-846 9041A         SW-846 9040B           Receiving Area         equivalent         in taults.         SW-846 1020A         SW-846 1020A           Receiving Area         SW-846 or waste stream in each shipment within 24         Pashpoint         SW-846 1020A         SW-846 1020A           Receiving Area         equivalent         in taults.         Provident         SW-846 1020A         SW-846 1020A           Receiving Area         equivalent         in taults.         Provident         SW-846 1020A         SW-846 1020A           Receiving Area         equivalent         in taults.         Provident         SW-846 1020A         SW-846 1020A           Not applicable.         Dut of nuloading containers and priot of the physical configuration of this waste, sampling and analysis is not practical.         SW-846 1020A         SW-846 1020A           Not applicable.         Dut of nuloading containers and priot of the physical Description         SW-846 1020A         SW-846 1020A           Not applicable.         Dut of nuloading containers and pri	6	Not applicable.	Due to the physi	ical state of this material and inherent hazarc	is in sampling and analysis, this material wi	ill not be sampled.	
Accornds Area         equivation         pince         pince         SW-846 9041A           placement in tanks.         Plashpoint         SW-846 9040B         SW-846 9040B           Paceving         SW-846 00         Individual samples will be taken for each         Physical Description         SW-846 1020A           Container         SW-846 or         Individual samples will be taken for each         Physical Description         SW-846 1020A           Receiving Area         equivalent         waste stream in each shipment within 24         Physical Description         ASTM D1298-99           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         SW-846 1020A         SW-846 1020A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         SW-846 1020A         SW-846 1020A           Container         SW-846 or         Individual samples will be taken for each         Problement         SW-846 1020A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         SW-846 1020A         SW-846 1020A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         ASTM D4979-95         Astern D4982-95           Receiving Area         equivalent in tanks.         Prost practical.         ASTM D4982-95	10.	Container	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
Image: Switch of the product of th			cyurvarcurt	hours of unloading containers and prior to	Hd	SW-846 9041A	
Image: Simple will be taken for each     Flashpoint     SW-846 1020A       Container     SW-846 or     Individual samples will be taken for each     Physical Description     ASTM D1298-99       Receiving Area     equivalent     waste stream in each shipment within 24     Physical Description     ASTM D4979-95       Receiving Area     equivalent     waste stream in each shipment within 24     Phonts of unloading containers and prior to placement in tanks.     PCB Content     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 1020A     SW-846 1020A			-	placement in tanks.		SW-846 9040B	0.1
Container       Sw-846 or sw-846 or Receiving Area       Individual samples will be taken for each waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.       Physical Description       ASTM D4979-95         Not applicable.       SW-846 or placement in tanks.       Flash Point       SW-846 1020A         Not applicable.       Due to the physical configuration of this waste, sampling and nanysis is not practical.       SW-846 s082         Not applicable.       Due to the physical configuration of this waste, sampling and nanysis is not practical.       SW-846 s082         Not applicable.       SW-846 or hours of unloading containers and prior to hours of unloading containers and prior to placement in tanks.       PtB content       SW-846 s082	tani otta ontat	-			Flashpoint	SW-846 1020A	5°F
ContainerSW-846 orIndividual samples will be taken for each waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.Physical DescriptionASTM D4979-95 SW-846 1020ANot applicable.Due to the physical configuration of this waste, sampling and analysis is not practical.SW-846 1020A SW-846 8082SW-846 1020A SW-846 8082Not applicable.Due to the physical configuration of this waste, sampling and analysis is not practical.Receiving Area SW-846 007SW-846 1020A SW-846 1020ANot applicable.SW-846 or waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.Physical DescriptionASTM D4979-95 ASTM D4979-95Not applicable.SW-846 or hours of unloading containers and prior to placement in tanks.Prove the physical DescriptionASTM D4979-95 ASTM D4982-95Not applicable.SW-846 or hours of unloading containers and prior to placement in tanks.Prove the physical DescriptionASTM D4979-95 ASTM D4982-95Not applicable.SW-846 or hours of unloading containers and prior to placement in tanks.Physical DescriptionASTM D4982-95Not applicable.Not applicable.DescriptionASTM D4982-95Not applicable.Not applicable.ASTM D4982-95					Specific gravity	ASTM D1298-99	0.1
According Area         According Area         According Area         Bound of unloading containers and prior to hours of unloading containers and prior to placement in tanks.         Flash Point         SW-846 1020A           Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.         SW-846 8082         SW-846 8082           Container         SW-846 or         Individual samples will be taken for each         Physical Description         ASTM D4979-95           Receiving Area         equivalent         waste stream in each shipment within 24         Physical Description         ASTM D4979-95           Receiving Area         equivalent         in each shipment within 24         Physical Description         ASTM D4979-95           Provide         Receiving Area         equivalent         in each shipment within 24         Physical Description         ASTM D4982-95           Provide         Astron 10         Astron 10         Astron 10         Astron 104981-95	11.	Container		Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
Piacement in tanks.     PCB Content     SW-846 8082       Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.     SW-846 01     Individual samples will be taken for each       Receiving Area     Fluct or advised or advised and prior to advised to a practical.     SW-846 1020A       Receiving Area     Fluct or advised and prior to advise stream in each shipment within 24     Physical Description     ASTM D4979-95       Receiving Area     Equivalent     waste stream in each shipment within 24     Physical Description     ASTM D4982-95       Receiving Area     equivalent     placement in tanks.     Flash Point or     SW-846 1020A       Providizer Screen     ASTM D4981-95     Oxidizer Screen     ASTM D4981-95		veceivilis Alea	equivalent	hours of unloading containers and prior to	Flash Point	SW-846 1020A	5°F
Not applicable. Due to the physical configuration of this waste, sampling and analysis is not practical.       ASTM D4979-95         Container       SW-846 or       Individual samples will be taken for each       Physical Description       ASTM D4979-95         Container       SW-846 or       Individual samples will be taken for each       Physical Description       ASTM D4979-95         Receiving Area       equivalent       waste stream in each shipment within 24       Physical Description       ASTM D4982-95         Physical Description       ASTM D4982-95       Oxidizer Screen       ASTM D4981-95         Physical Description       ASTM D4981-95       Oxidizer Screen       ASTM D4282-95				placement in tanks.	PCB Content	SW-846 8082	1 ppm
Container     SW-846 or Receiving Area     Individual samples will be taken for each waste stream in each shipment within 24 hours of unloading containers and prior to placement in tanks.     Physical Description     ASTM D4979-95       Receiving Area     equivalent hours of unloading containers and prior to placement in tanks.     Flash Point or Flash Point or     ASTM D4979-95       Note     outside     ASTM D4982-95     Oxidizer Screen     ASTM D4981-95       Cyanide     Cyanide     ASTM D4282-95	12.	Not applicable.	Due to the physi	ical configuration of this waste, sampling and	analysis is not practical.		
hours of unloading containers and prior to placement in tanks. SW-846 1020A Flammability Potential ASTM D4982-95 Oxidizer Screen ASTM D4981-95 Cyanide ASTM D4282-95	13.	Container Pereiving Area	SW-846 or	Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
Flammability PotentialASTM D4982-95Oxidizer ScreenASTM D4981-95CyanideASTM D4282-95			cduivaicut	hours of unloading containers and prior to	Flash Point or	SW-846 1020A	5°F
ASTM D4981-95 ASTM D4282-95				placement in tanks.	Flammability Potential	ASTM D4982-95	$N/A \pm Result$
ASTM D4282-95					Oxidizer Screen	ASTM D4981-95	$N/A \pm Result$
		-			Cyanide	ASTM D4282-95	$N/A \pm Result$

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Permit No. 50267	Permittee: SET Environmental, I	

Waste	Sampling	Sampling	Гассилания	Donomoton	Test Method	Desired
$No^i$	Location	Method	fouanhaut	lanan m	(or equivalent)	Level
				Sulfide	ASTM D4978-95	$N/A \pm Result$
				Hd	SW-846 9041A	1
					SW-846 9040B	0.1
				Specific Gravity or Bulk Density	ASTM D1298-99	0.1
				VO Content <sup>8</sup>	40 CFR 60-25D <sup>10</sup>	1 ppm
				Vapor Pressure <sup>9</sup>	ASTM D5191 <sup>10</sup>	± 76.6 kPa
14.	Container		Individual samples will be taken for each	Physical Description	ASTM D4979-95	N/A Observation
	Kecelving Area	equivalent	hours of unloading containers and prior to	Oxidizer Screen	ASTM D4981-95	$N/A \pm Result$
			placement in tanks.	Cyanide	ASTM D4282-95	$N/A \pm Result$
				Sulfide	ASTM D4978-95	$N/A \pm Result$
			oneque to a zero serie to objetio manification orientification contractions and a subjects will pr	pH	SW-846 9041A	1
			elle upper sour roccus curpolitie parterne procetter och occus at app elle european		SW-846 9040B	0.1
	5 381 - 8 63 Marine 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		e en antenna a su curturado a parte a su su curturado a su curturado e contratemente	Specific Gravity or Bulk Density	ASTM D1298-85	0.1
15,22,23	Not applicable,	empty containe	Not applicable, empty containers will not be sampled and analyzed.			
16	Not applicable,	aerosol cans wil	Not applicable, aerosol cans will not be sampled and analyzed.			
17.	Scrubber or Containers	SW-846 or equivalent	Sampling and analysis will be conducted annually unless the waste is assumed to exhibit all hazardous characteristics	TC Metals	SW-846 1311, 6010/7470	1 - 0.001
			applicable to waste being treated under the control of the air emissions system.	Hd	SW-846 9040B	0.1
			option to term of physics of a start of	Flash Point	SW-846 1020A	5°F
18.	Carbon beds or Containers	SW-846 or equivalent	Sampling and analysis will be conducted annually (or when generated) unless the waste is assumed to exhibit all hazardous	Toxicity Characteristics	SW-846 1311, 6010/7470	1 - 0.001

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WasteSamplingSamplingNotLocationMethodNotLocationMethod	Sampling Method	Frequency	ta haina	Parameter	Test Method (or equivalent)	Desired Accuracy Level
treated under the control of the air emissions system.	cutatacteristics applicable to v treated under the control of t emissions system.	cutatacteristics applicable to v treated under the control of t emissions system.	vaste peurg he air			
19. Waste classification will be based on the derived from rule, absorbents will retain the same EPA waste codes as the spilled material	vill be based on the derived from rule, absorbe	e derived from rule, absorbe	nts will retain the	same EPA waste codes as the spilled mater	rial.	
Containers in storage areasSW-846 or equivalentSampling and analysis of contaminated mateurstorage areasequivalentPPE will be conducted annually unless the waste is assumed to exhibit all toxicity characteristics reasonably expected to be present in the waste.	SW-846 orSampling and analysisequivalentPPE will be conductedwaste is assumed to excharacteristics reasonpresent in the waste.	Sampling and analysis of c PPE will be conducted ann waste is assumed to exhibi characteristics reasonably present in the waste.	of contaminated annually unless the chibit all toxicity ably expected to be	Toxicity Characteristics	SW 846 1311, 6010, 7470, 8081, 8151, 8260, 8270	1-0.001
Containers SW-846 or If the treated waste originally exhibited a equivalent hazardous characteristic or contained cvanides. sulfides or underlying hazardous		If the treated waste originally hazardous characteristic or cc cvanides. sulfides or underlyi	exhibited a ontained ng hazardous	Toxicity Characteristic	SW 846 1311, 6010,7470, 8081,8151,8260,8270	1 - 0.001 ppm
constituents; sampling and analysis will be	constituents; sampling and ai	constituents; sampling and a	nalysis will be	Presence of liquids	SW-846 9050	$N/A \pm Result$
volution to the treatment standards or the ways meets the treatment standards or the	waste meets the treatment st	waste meets the treatment str	andards or the	Hd	SW-846 9040B	1
waste will be assumed to exhibit the same hazards or constituents present in the	waste will be assumed to exi hazards or constituents pres	waste will be assumed to exi- hazards or constituents pres	nbit the same ent in the	Flash Point <sup>4</sup>	SW-8461020A	5°F
waste prior to treatment.	waste prior to treatment.	waste prior to treatment.		Total Cyanide	SW-846 9012 <sup>10</sup>	1 ppin
				Amenable Cyanide	EPA 335.1	1 ppm
				Total Sulfide	ASTM D4978-95	$N/A \pm Result$

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od Desired Accuracy ent) Level	7470, 1 - 0.001 270	1	0.1	5°F	7470, 1 - 0.001 70	, 1-0.001	7470, 1 - 0.001 70	0.1	5°F	7470, 1 - 0.001 70	5°F	0.1	7470, 1-0.001 70	1 ppm
Test Method (or equivalent)	SW 846 1311, 6010, 7470, 8081, 8151, 8260, 8270	SW-846 9040B	SW-846 9040B	SW-8461020A	SW 846 1311, 6010,7470, 8081,8151,8260,8270	SW-846 6010, 7470, 8260, 8270, 8081	SW 846 1311, 6010,7470, 8081,8151,8260,8270	SW-846 9040B	SW-846 1020A	SW 846 1311, 6010,7470, 8081,8151,8260,8270	SW-846 1020A	SW-846 9040B	SW 846 1311, 6010,7470, 8081,8151,8260,8270	SW-846 9012 <sup>10</sup>
Parameter	Toxicity Characteristics	PH	Hq	Flash Point	Toxicity Characteristics	Underlying Hazardous Constituents <sup>11</sup>	Toxicity Characteristic	Hq	Flash Point	Toxicity Characteristic	Flash Point	hq	Toxicity Characteristics	Total Cyanide
Frequency	Utilizing process knowledge, rinse water will be assumed to exhibit any toxicity characteristic that would have applied to	the waste previously held in the container or will be analyzed with each batch for toxicity characteristics and pH (if the waste previously held in the container was corrosive).	Annually	iso peus conducted 15 demostrate the class	1.202000 The overse developmentation for the action of the second structure of the	a in a lab pack and shourd liquids II lab pack d will retain all beautions characteration. But	Sampling and analysis will be conducted annually unless the waste is assumed to	exiting an oxicity characteristics reasonably expected to be present in the	waste.	Sampling and analysis will be conducted annually unless the waste is assumed to exhibit all toxicity characteristics reasonably expected to be present in the waste.	If the treated waste originally exhibited a		consutuents; sampung and analysis will be conducted with each batch to verify the waste meets the treatment standards or the	
Sampling Method	SW-846 or equivalent	to space the operation of the second se	SW-846 or	equivalent	generations a	anjasi oo nama ad iyom mise z	SW-846 or equivalent		tradavi upa	SW-846 or equivalent	SW-846 or	equivalent	Mattod	
Sampling Location	Containers in storage areas	T-00		n	Containers	this is used to a	Container and Tanks			Containers	1	F 1-11, W W -2,	pocotion.	
Waste No <sup>1</sup>	24,25,29	comparison Beter Et	26.			projen vo	27.			30.	31.		Wo.	

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Wate	Campling	Samhina			Test Method	Desired
Noi	Location	Method	Frequency	Parameter	(or equivalent)	Accuracy Level
			hazards or constituents present in the	Amenable Cyanide	EPA 335.1	1 ppm
			waste prior to treatment.	Sulfide	ASTM D4978-95	N/A ± Result
				Underlying Hazardous Constituents	SW-846 6010, 7470, 8260, 8270, 8081	1 - 0.001 ppm
Pallets cc spilled m	ontaminated wi aterial will be a	ith waste from applied to the c	Pallets contaminated with waste from a leaking container will be classified in accordance with the derived from rule (i.e., EPA waste codes associated with the spilled material will be applied to the contaminated pallet).	ccordance with the derived from rule (i.	e., EPA waste codes assoo	iated with the
33.	Containers	SW-846 or	Annually	Hq	SW-846 9040B	0.1
		equivalent		Toxicity Characteristics	SW 846 1311, 6010, 7470, 8081,8151,8260, 8270	1 - 0.001
34. Rinse EPA waste	u water generated e codes and unde	during spill clea srlying hazardou	34. Rinse water generated during spill clean-up (Waste Number 34) will be classified in accordance with the derived from rule and will retain all hazardous characteristics, listed EPA waste codes and underlying hazardous constituents that applied to the waste prior to being spilled.	accordance with the derived from rule and v to being spilled.	will retain all hazardous cha	acteristics, listed
35. Vermi in accorda broken co determina	culite is used to curve with the der nation of the der nationer. Uncontration has also been been been been been been been bee	cushion containe ived from rule an aminated vermic en demonstrated	35. Vermiculite is used to cushion containers in a lab pack and absorb liquids if lab pack bottles break. Vermiculite contaminated as a result of a broken container will be classified in accordance with the derived from rule and will retain all hazardous characteristics, listed EPA waste codes and underlying hazardous constituents that applied to the waste in the broken container. Uncontaminated vermiculite is classified as a class 1 non-hazardous waste based on process knowledge (no broken bottles in lab pack) and analysis. A Class 2 determination has also been demonstrated on two occasions through analysis that included all constituents specified in 30 TAC 335 Subchapter R Appendix 1 Table 1	bottles break. Vermiculite contaminated as ted EPA waste codes and underlying hazard vaste based on process knowledge (no broke ded all constituents specified in 30 TAC 335	s a result of a broken contair dous constituents that applie en bottles in lab pack) and a 5 Subchapter R Appendix 1 T	er will be classified d to the waste in the aalysis. A Class 2 able 1
36. Silica i air produc changes	is generated fron ces silica. One ti	n the treatment c me analysis has a	36. Silica is generated from the treatment of Silane. The waste determination for this material is based on process knowledge in that the byproduct of treating Silane with oxygen in air produces silica. One time analysis has also been conducted to demonstrate the Class 1 non-hazardous waste determination. Future analysis will be conducted if the process changes	aterial is based on process knowledge in tha 1 non-hazardous waste determination. Futi	it the byproduct of treating S ture analysis will be conduct	ilane with oxygen in ed if the process
37. Used	oil filters remove	ed from company	37. Used oil filters removed from company vehicles are classified in accordance with the	in accordance with the hazardous waste exclusion in 40 CFR 261.4(b)(13).	4(b)(13).	
38. An al listed EP compresse	bsorbent materia A waste codes av ed gas or will be	al such as activat ssociated with th analyzed for toxi	38. An absorbent material such as activated carbon is used to absorb certain compressed gases. The absorbent is classified in accordance with the derived from rule in that any listed EPA waste codes associated with the compressed gas will be assigned to the spent carbon. The spent carbon will also be assumed to exhibit the same characteristics of the compressed gas or will be analyzed for toxicity characteristics with each batch.	ed gases. The absorbent is classified in accol it carbon. The spent carbon will also be assu	urdance with the derived fror umed to exhibit the same ch	a rule in that any aracteristics of the
39. Abrasi cleaning e	ives may be used ffort is the resul	l to clean hard co t of a spill (i.e., tl	39. Abrasives may be used to clean hard contaminated surfaces. Classification will be ba cleaning effort is the result of a spill (i.e., the sandblast media will be assigned the same	Classification will be based on TCLP analysis for toxic hazardous constituents and from the derived from rule if the Il be assigned the same listed codes as the material that spilled).	onstituents and from the de	ived from rule if the
FOOTNOTES	OTES					
<sup>1</sup> Item nu <sup>2</sup> Samplii indicat	mbers in this c ng and Test/Aı ed while allowi	olumn corresp alysis method ng flexibility in	<sup>1</sup> Item numbers in this column correspond to the numbers in the first column of Table IV.B. <sup>2</sup> Sampling and Test/Analysis methods should be specified in enough detail to allow detern indicated while allowing flexibility in selection and future updates to the specified method	n the first column of Table IV.B. in enough detail to allow determination of whether they are suitable and correct for the purpose updates to the specified method. Standard methods, such as those from SW-846, will generally require	e suitable and correct for as those from SW-846, w	the purpose ill generally require

Permit No. 50267 Permit No. 50267 Permittee: SET Environmental, Inc. Page 8 of 8 no further submittal. Non-standard and proprietary methods may require additional information to determine suitability. ASTM methods may require submittal of a copy of the specified method. Deforming the analysis is an inner environment of the method and provide a specified numeric minimum performance level (maximum acceptable reporting limit) for method any require submittal quantitation limits that will be accepted from the laboratory performing the analysis is conducted on waste containing liquids only. Cyanide or suffide analysis identified for Waste number '6' applies to reactive suffide bearing wastes. Fingerprint analysis listed does not apply to other types of restrict waste C = g, water reactives juit acamolo be sampled or malyzed due to hibry ESTE Environmental. The Volatile Organic Content determination for conducted on mazerdous waste internet hazards. FITU, 3, Water, TOX, and Chlorine analysis will be conducted on waste conducted on hazardous waste intended to he placed in tanks exempt from AO C C subject C controls due to their VO content. Vapor pressure determinations (based on knowledge or analysis) will be conducted on hazardous waste intended to be placed in tanks exempt from AO C Stappart CC controls due to their VO content. Vapor pressure determinations (based on knowledge or analysis) will be conducted on hazardous waste intended to be placed in tanks accempt the primary method is a placed in a planet determine to a O CFR \$268.48 standards. "The analysis is conducted when the waste exhibits a hazardous subset to a O CFR \$268.48 standards. "The analysis is conducted when the waste exhibits a hazardous subject to a O CFR \$268.48 standards. "The analysis is conducted when the waste exhibite a blaced in tanks exempt "The analysis is conducted when the waste exhibite a blaced in tanks accords that the analysis is conducted when the waste exhibi	Inc. and proprietary metho de a specified numeric ted from the laborator eter tested.4Flash poin e conducted on aqueou ir "6" applies to reactivu , air reactives) that can nalysis will be conduct etermination (based or the to their VO content. ed on knowledge or and wever, an alternate equ waste exhibits a hazar itted storage area that	ods may require addi . minimum performa y performing the ana t or flammability pot us waste with a pH ≤ e cyanide or reactive in thowledge or analy alysis) will be conduc alysis) will be conduc alysis) will be conduc is not equipped with is not equipped with	ods may require additional information to determine s minimum performance level (maximum acceptable re y performing the analysis and must ensure that report t or flammability potential analysis is conducted on we us waste with a pH ≤ 2. e cyanide or reactive sulfide bearing wastes. Fingerpri mot be sampled or analyzed due to inherent hazards. ed on waste intended for fuel blending by SET Environ hrowledge or analysis) will be conducted on hazardo alysis) will be conducted on hazardous waste intended alysis) will be conducted on hazardous waste intended uivalent method may be used. dous characteristic subject to 40 CFR §268.48 standar is not equipped with a secondary containment system.	ermine suitability. ASTM me ptable reporting limit) for me at reported data will allow de ed on waste containing liqui ingerprint analysis listed do azards. `Environmental. hazardous waste intended to hazardous waste intended to standards. s standards. t system.	Page 8 of 8 thods may require submittal ethod detection and terminations of compliance is only. es not apply to other types of es not apply to other types of s meeting 40 CFR Subpart CC
<sup>B1U</sup> , % Water, IUX, and Chlorine a The Volatile Organic (VO) Content o from 40 CFR Subpart CC controls o Vapor pressure determinations (bas level 1 controls. <sup>DT</sup> He primary method is indicated; hu <sup>II</sup> This analysis is conducted when the <sup>I2</sup> If the waste will be placed in a perm	narysis will be conduct etermination (based or ue to their VO content. ed on knowledge or an wever, an alternate equ waste exhibits a hazar itted storage area that itted storage area that	ed on waste intended n knowledge or analy alysis) will be conduc uivalent method may dous characteristic si is not equipped with	t for fuel blending by SEL sis) will be conducted on ted on hazardous waste be used. abject to 40 CFR §268.46 a secondary containmen	Environmental. hazardous waste intended to ntended to be placed in tank standards. t system.	o be placed in tanks exempt s meeting 40 CFR Subpart CC
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			lable V.E	6. – Contail	1 able V.b. – Container Storage Areas	Areas	-
Permit Unit No.	Container Storage Area	N.O.R. No.	Waste Nos.4	Rated Capacity <sup>3</sup>	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable <sup>1</sup> , Reactive <sup>1</sup> , or Incompatible <sup>2</sup> waste (state all that apply)
1	CS-1	1	2,3,4,8,9,10,12,13,14,15,16,17, 18,19,20,21,22,23,24,25,26, 27,28,29,30,31,33,36,38	6,600	48' x 100'	14,350	Ignitable, and Reactive Waste*
ы	CS-2	3	1,2,3,4,6,7,8,9,10,11,12,13,14,15, 16,17,18,19,20,21,22,23,24,25 26,27,28,29,30,31,33,36,37,38	88,880	44' x 169'	14,540	Ignitable, Reactive and Incompatible Waste
ç	CS-3	17	2,3,4,8,9,12,13,14,15,16,17, 18,19,20,21,22,23,24,25, 26,27,28,29,30,31,33,38	11,110	48' x 54'	8,843	
4	CS-4	Q	2,3,4,8,9,11,10,12,13,14,15,16,17, 18,19,20,21,22,23,24,25, 26,27,28,29,30,31,33,37,38	48,400	51' x 68.5'	16,749	Ignitable, and Reactive Waste
5	CS-5	15	4,6,9,12,14	880	10.6' x 23.5'	380	Ignitable, Reactive
9	CS-6	16	2,3,4,6,9,10,12,13,14,15,16,17, 18,19,20,21,22,23,24,25, 26,27,28,29,30,31,33,27,38	15,840	36' x 23.5'	2,696	Ignitable, and Reactive Waste
	•						
1 Containare	e managing janit	ahle or rea	Containare managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.	heters (50 feet)	from the facility's	property line.	

Table V.B. - Container Storage Areas

1 Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line. 2 Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, 3 Container Storage Areas need to include in capacity calculations any nonhazardous wastes and universal wastes managed in the unit in addition to hazardous wastes. 4 from Table IV.B, first column \* Applies to ignitable and reactive waste treated in tanks. or other device.

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Table V.C. – Tanks and Tank System

Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)	Ignitable, Reactive Incompatible	Ignitable, Reactive Incompatible	None	None	Ignitable, Reactive Incompatible			
Containment Volume (including rainfall for unenclosed areas)	2,917	1,615	$7,135^{(3)}$	7,135 <sup>(3)</sup>	2754 W=7.5' x L=9.5' x H=5.2'			
Dimensions (feet)	D=6.5', H=8.6'	W=5.7', L=8', H=4.4'	D=9', H=17'	D=8.5' H=17.5'	W=6', L=7.7', H=4.5'			
Rated Capacity	1,870	1,500	7,000	6,500	1.548		24	
Waste Nos. <sup>1</sup>	1, 2, 3, 6, 13, 14, 17, 21, 24, 26, 29, 31, 33, 34	$\begin{array}{c} 1,2,3,6,\\ 13,14,17,\\ 21,24,\\ 26,29,\\ 31,33,34 \end{array}$	2, 3,7, 13, 31	2, 3,7, 13, 31	1, 2, 3, 6,9, 13, 14, 17, 21, 24, 26, 29, 31, 33, 34, 36, 38			
Storage and/or Processing	Storage and Processing	Storage and Processing	Storage and Processing	Storage	Storage and Processing			
N.O.R. No.	50	21	30	39	51			
Tank	PT-2	PT-11 <sup>(2)</sup>	PT-5	WW-2	PT-12 <sup>2</sup>		· · · ·	194
Permit Unit No.	×	σ	14	15	16			
	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos.1Capacity(feet)(including rainfall for unenclosed areas)	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos. <sup>1</sup> Capacity(feet)(including rainfall for unenclosed areas)PT-220Storage and Processing1, 2, 3, 6, 13, 14, 17,1,870D=6.5', H=8.6'2,917	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos. <sup>1</sup> Capacity(feet)unenclosed areas)No.Processing1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ PT-220Storage and $21, 24,$ $1, 870$ $H=8.6'$ $2,917$ PT-220Storage and $21, 24,$ $1, 870$ $H=8.6'$ $2,917$ PT-1(2)20Storage and $21, 24,$ $1, 3, 14, 17,$ $1, 870$ $H=8.6'$ $2,917$ PT-11(2)212126, 29, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ PT-11(2)212124, 17, $1,500$ $W=5,7', L=8',$ $1,615$	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos. <sup>1</sup> Capacity(feet)unenclosed areas)No.Processing1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ PT-220Storage and Processing1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ PT-220Storage and Processing $1, 2, 3, 6,$ $1, 870$ $D=6.5',$ $2.917$ PT-120Storage and Processing $21, 24,$ $1, 870$ $D=6.5',$ $2.917$ PT-120Storage and PT-11 <sup>(a)</sup> $21, 24,$ $1, 870$ $D=6.5',$ $2.917$ PT-10 <sup>(a)</sup> 21Storage and PT-11 <sup>(a)</sup> $21, 24,$ $1, 870$ $D=6.5',$ $2.917$ PT-10 <sup>(a)</sup> 21Storage and PT-11 <sup>(a)</sup> $21, 24,$ $1, 870$ $W=5.7', L=8',$ $1, 615$ PT-10 <sup>(a)</sup> 21Storage and PT-5 $23, 73, 13,$ $7,000$ $D=9', H=17'$ $7,135^{(3)}$	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNoProcessingNos.1Nos.1Capacity(feet)unenclosed areas) $PT-2$ 20Storage and $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ $PT-2$ 20Storage and $1, 2, 3, 6,$ $1, 870$ $D=6.5',$ $2,917$ $PT-1$ 20Storage and $1, 2, 3, 6,$ $1, 3, 14, 17,$ $1, 870$ $D=6.5',$ $PT-11^{(a)}$ 21 $21, 24,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ $26, 29,$ $PT-11^{(a)}$ 21Storage and $1, 2, 3, 6,$ $1, 2, 3, 6,$ $1, 2, 3, 6,$ $PT-11^{(a)}$ 21Storage and $21, 24,$ $1, 500$ $W=5,7', L=8',$ $PT-11^{(a)}$ 21Storage and $21, 24, 31, 417,$ $1, 500$ $W=5,7', L=8',$ $PT-5$ 30Storage and $21, 24, 31, 417,$ $1, 500$ $W=5,7', L=8',$ $PT-5$ 30Storage and $21, 24, 31, 417,$ $1, 500$ $W=5,7', L=8',$ $PT-5$ 30Storage and $21, 24, 37, 13, 37, 33, 34$ $7, 000$ $D=9', H=17'$ $PT-5$ 30Storage and $2, 37, 13, 5, 500$ $D=9', H=17'$ $7, 135^{(3)}$ $WW-2$ 39Storage $2, 3,7, 13, 6, 500$ $D=9', H=17'$ $7, 135^{(3)}$	TankN.O.R.Storage and/or ProcessingWasteRatedDimensionsContainment Volume (including rainfall for unenclosed areas) $No.$ Processing $13, 14, 17$ , $13, 14, 17$ , Processing $1, 2, 3, 6,$ $2, 1, 24,$ $31, 33, 34,$ $1, 870$ DimensionsContainment Volume (including rainfall for unenclosed areas) $PT-2$ $20$ Storage and $2, 1, 24,$ $21, 24,$ $1, 2, 3, 6,$ $31, 33, 34,$ $1, 870$ Die, 5, $1, 870$ $2, 917$ $1, 800$ $PT-11^{(3)}$ $21$ Storage and $21, 24,$ $1, 2, 3, 6,$ $31, 33, 34,$ $1, 500$ Die, 5, $1, 500$ $2, 917$ $14, 44,$ $PT-11^{(3)}$ $21$ Storage and $21, 24,$ $1, 500$ $N=5, 1-8,$ $1, 500$ $1, 6, 15$ $PT-11^{(3)}$ $21$ Storage and $21, 24,$ $1, 500$ $N=5, 1-8,$ $1, 500$ $1, 6, 5, 1-8,$ $1, 615$ $WW-2$ $30$ Storage and $31, 31, 33, 34,$ $1, 500$ $D=9, H=17$ $7, 135^{(3)}$ $WW-2$ $30$ Storage and $2, 37, 13$ $2, 37, 13,$ $5, 500$ $D=9, H=17$ $7, 135^{(3)}$ $WW-2$ $30$ Storage and $2, 33, 33, 34,$ $1, 500$ $D=9, H=17, 5,$ $7, 135^{(3)}$ $1, 615$ $WW-2$ $51$ Storage and $2, 33, 34,$ $1, 500$ $D=9, H=17, 5,$ $7, 135^{(3)}$ $1, 615$ $W-2$ $51$ $W=6, L=77, 6,$ $1, 615$ $7, 135^{(3)}$ $W-2$ $51$ $W=6, L=77, 6,$ $7, 135^{(3)}$ $W-2$ $51$ $1, 548$ $W=6, L=77, 6,$ $W=7, 5, X L$	TankN.O.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos.ProcessingNos.Capacity(feet)unenclosed areas)PT-220Storage and1, 2, 3, 6, $1, 3, 4, 17$ , $1, 870$ $D=6.5'$ , $2.917$ PT-220Storage and $21, 24,$ $1, 870$ $D=6.5'$ , $2.917$ PT-1(s)21Storage and $21, 24,$ $1, 500$ $W=57', 1=8'$ , $2.917$ PT-1(s)21Storage and $21, 24,$ $1, 500$ $W=57', 1=8',$ $2.917$ PT-1(s)21Storage and $21, 24,$ $1, 500$ $W=57', 1=8',$ $1, 615$ PT-1(s)21Storage and $21, 24,$ $1, 500$ $W=57', 1=8',$ $1, 615$ WW-230Storage and $21, 24,$ $1, 500$ $W=57', 1=8',$ $7, 135^{(3)}$ WW-230Storage and $21, 24,$ $1, 500$ $D=9', H=17'$ $7, 135^{(3)}$ WW-239Storage and $21, 24,$ $1, 500$ $D=9', H=17'$ $7, 135^{(3)}$ WW-239Storage and $23, 713,$ $6, 500$ $D=9', H=17'$ $7, 135^{(3)}$ PT-12*51Storage and $23, 713,$ $1, 500$ $D=9', H=17'$ $7, 135^{(3)}$ PT-12*51Storage and $23, 713,$ $1, 500$ $D=9', H=17'$ $7, 135^{(3)}$ PT-12*51Storage and $23, 713,$ $1, 500$ $M=6, 1=7,7'$ $7, 135^{(3)}$ PT-12*51 </td <td>TankNO.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos.!Capacity(feet)(including rainfall forNo.Processing1, 2, 3, 6,1, 3, 14, 17,1, 870<math>D=6.5'</math><math>2.917</math>PT-220Storage and1, 2, 3, 6,<math>1, 2, 3, 6,</math><math>1, 2, 3, 6,</math><math>2.917</math>PT-120Storage and1, 2, 3, 6,<math>1, 2, 3, 6,</math><math>1, 2, 3, 6,</math><math>2.917</math>PT-1(s)21Storage and1, 2, 3, 6,<math>1, 2, 3, 6,</math><math>1, 2, 3, 6,</math><math>2.917</math>PT-1(s)21Storage and<math>2, 2, 2, 4,</math><math>1, 500</math><math>H=4.4'</math><math>1, 615</math>PT-1(s)21Storage and<math>2, 3, 7, 13,</math><math>7,000</math><math>D=9, H=17'</math><math>7,135^{(0)}</math>WW-230Storage and<math>2, 3, 7, 13,</math><math>5,000</math><math>D=9, H=17'</math><math>7,135^{(0)}</math>WW-239Storage and<math>2, 3, 7, 13,</math><math>6,500</math><math>D=8.5'</math><math>7,135^{(0)}</math>WW-239Storage and<math>2, 3, 7, 13,</math><math>6,500</math><math>D=8, 5'</math><math>7,135^{(0)}</math>WW-239Storage and<math>2, 3, 7, 13,</math><math>4, 4, 7, 5'</math><math>1,515'</math>WW-239Storage and<math>2, 3, 7, 13,</math><math>4, 4, 7, 5'</math><math>1,65, 2', 1-8, 5'</math>WW-239Storage and<math>2, 3, 7, 13,</math><math>4, 4, 6', 1-8, 7', 1-8, 5'</math><math>1,615, 2', 7, 135^{(0)}</math>WW-239Storage and<math>2, 3, 7, 13, 2', 13, 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2</math></td>	TankNO.R.Storage and/orWasteRatedDimensionsContainment VolumeNo.ProcessingNos.!Capacity(feet)(including rainfall forNo.Processing1, 2, 3, 6,1, 3, 14, 17,1, 870 $D=6.5'$ $2.917$ PT-220Storage and1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $2.917$ PT-120Storage and1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $2.917$ PT-1(s)21Storage and1, 2, 3, 6, $1, 2, 3, 6,$ $1, 2, 3, 6,$ $2.917$ PT-1(s)21Storage and $2, 2, 2, 4,$ $1, 500$ $H=4.4'$ $1, 615$ PT-1(s)21Storage and $2, 3, 7, 13,$ $7,000$ $D=9, H=17'$ $7,135^{(0)}$ WW-230Storage and $2, 3, 7, 13,$ $5,000$ $D=9, H=17'$ $7,135^{(0)}$ WW-239Storage and $2, 3, 7, 13,$ $6,500$ $D=8.5'$ $7,135^{(0)}$ WW-239Storage and $2, 3, 7, 13,$ $6,500$ $D=8, 5'$ $7,135^{(0)}$ WW-239Storage and $2, 3, 7, 13,$ $4, 4, 7, 5'$ $1,515'$ WW-239Storage and $2, 3, 7, 13,$ $4, 4, 7, 5'$ $1,65, 2', 1-8, 5'$ WW-239Storage and $2, 3, 7, 13,$ $4, 4, 6', 1-8, 7', 1-8, 5'$ $1,615, 2', 7, 135^{(0)}$ WW-239Storage and $2, 3, 7, 13, 2', 13, 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2', 13', 2$

<sup>1</sup> from Table IV.B, first column <sup>2</sup> PT-11 and PT-12 are rectangular tanks located in an in-ground vault. <sup>3</sup> Tanks PT-5 and WW-2 are located within a shared concrete containment structure.

Page 1 of 1

Existing Unit Closure Cost Estimate	
Unit	Cost
TRRP Sampling Analysis and Closure Certifications	\$13,389
PT-2 (Permit Unit No. 8)	\$4,821
PT-5 (Permit Unit No. 14)	\$10,543
PT-11 (Permit Unit No. 9)	\$3,733
WW-2 (Permit Unit No. 15)	\$9,713
PT-12 (Permit Unit No. 16)	\$3,733
CS-1 (Permit Unit No. 1)	\$86,983
CS-2 (Permit Unit No. 2)	\$471,979
CS-3 (Permit Unit No. 3)	\$71,671
CS-4 (Permit Unit No. 4)	\$231,341
CS-5 (Permit Unit No. 5)	\$103,258
CS-6 (Permit Unit No. 6)	\$146,546
Total Existing Unit Closure Cost Estimate (in 2022 Dollars)	\$1,157,710

# Table VII.E.1. - Permitted Unit Closure Cost Summary

_
Cost
\$0.00

1 As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

Parameter	SCR010211	SCR 36 / SPCAU36	SCR 30	SCR 12	WPS12 – Wet water venturi type particulate scrubber ****
Alkalinity	Daily*	Daily*	Monthly	Daily*	innin Spinnin
pH or ORP****	Hourly**	Daily*	Daily*	Daily*	
pH value at or above****	10	10	10	10	
Flow Rate***	Daily*	Daily*	Daily*	Daily*	Daily*
Minimum liquid flow rate (gpm)	75	90	90	315	9000 scfm

### Table X.1. - Parameters to be Measured and Maintained for the Scrubbers

\* During start-up.

\*\* When material is being added to either Tank PT-2 or PT-11.

\*\*\* Flow rate is based on a pressure gauge reading on the discharge side of the spray pump or a device (e.g., inline turbine flow meter) that measures flow rate in gallons per minute.

\*\*\*\*Particles are removed by the Stage 1 venturi scrubber using recirculating water. The emissions from the treatment unit (FIN PT-12) are emitted through EPN SCR12 which is the exhaust from two scrubbers which are operated in series. The first scrubber is a venturi type particulate scrubber (WPS12) and the second is a packed bed chemical (caustic sodium hydroxide or potassium hydroxide) solution (SCR 12). \*\*\*\*\*If the scrubber is charged with a basic material, the pH of the scrubbing material must be as indicated in the table. If the scrubber is charged with an acid (e.g., appropriate when neutralizing Ammonia), the pH must be maintained below 2.0. If the scrubber is charged with a reducing agent (e.g., Sodium metabisulfite) or an oxidizer (e.g., Sodium hypochlorite or Potassium permanganate) the quality control measurement will be oxidation reduction potential (ORP).

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### Section X - Attachment A – Tables 1- 8

Removal Efficiencies / Maximum outlet concentration (ppmv) and outlet grain loading for the following scrubbers: Caustic Scrubber: EPN: SCR010211, FINs: SCR 36 and SCR 30, SPCAU36 and EPN: SCR12 and FIN: WPS12 – Wet particulate scrubber.

Compound	Scrubber Removal	Max Outlet PPMV (ppmv)
<b>.</b>	Efficiency	
Antimony	99%	10
Boron Tribromide	99%	17
Boron Trichloride	98%	10
Boron Trifluoride	97%	10
Bromine	99%	13
Carbonyl	95%	10
Chlorine	99%	25
Deuterium	99%	50
Deuterium	99%	50
Deuterium	99%	50
Deuterium Iodide	99%	50
Germanium	98%	10
Germanium Tetrafluoride	97%	10
Hydrogen Bromide	99%	50
Hydrogen Chloride	99%	50
Hydrogen Fluoride	99%	50
Hydrogen Iodide	99%	50
Molybdenum Hexafluoride	95%	10
Phosphorus Oxyfluoride	98%	10
Phosphorus Oxytrichloride	98%	10
Phosphorus Pentafluoride	95%	10
Phosphorus Trichloride	95%	10
Phosphorus Trifluoride	90%	10
Phosporus Tribromide	97%	10
Silicon Tetrafluoride	97%	10
Sulfur Bromide Pentafluoride		
207.6100 29 > 0.25%	90%	10
Sulfur Choride Pentafluoride		
163 100 22 > 0.25%	90%	10
Sulfur Dioxide	99%	25
Sulfuryl Chloride Fluoride	95%	10
Thionyl Bromide	97%	10
Thionyl Fluoride	95%	10
Trifluoromethyltriflate	90%	10
Trimethylborane	90%	10
Tungsten Hexafluoride	90%	10

Table 1 - Acid Gases

### Section X - Attachment A – Tables 1- 8

Removal Efficiencies / Maximum outlet concentration (ppmv) and outlet grain loading for the following scrubbers: Caustic Scrubber: EPN: SCR010211, FINs: SCR 36 and SCR 30, SPCAU36 and EPN: SCR12 and FIN: WPS12 – Wet particulate scrubber.

### Table 2 - Ammonia, Sulfides & Selenides

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)
Ammonia	99%	36
Carbonyl Sulfide	80%	10
Deuterium Sulfide	99%	21 Construction Provention Construction of
Hydrogen		
Selenide	99%	21
Hydrogen Sulfide	99%	21

Notes: 1. Ammonia cannot be effectively scrubbed out of an air stream using recirculating plain water; rather an acid is required for neutralizing the Ammonia as it absorbs into the recirculating solution. Typical acid of choice for scrubbing Ammonia is Sulfuric Acid.

Table 3 - Organo Silanes

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)
Chlorosilane	99%	17 <u>17</u>
Dichlorosilane	99%	13 (b)
Dimethyl Chlorosilane	99%	17
Hexachlorodisilane	98%	10
Hexafluorodisilane	97%	10
Methyl Dichlorosilane	99%	13
Methyl Trichlorosilane	99%	10
Trichlorosilane	99%	10
Trifluorosilane	98%	10

### Table 4 - Fluorinated Organic Acids

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)
(Fluoroculfory)		
(Fluorosulfonyl) difluoroacetyl fluoride, 2-	98%	10 the provide a second second
Heptafluoro butyryl Fluoride	90%	10
Nitrogen Trifluoride	50%	10
Tetraethylortho silicate	98%	10

### Section X - Attachment A – Tables 1-8

Removal Efficiencies / Maximum outlet concentration (ppmv) and outlet grain loading for the following scrubbers: Caustic Scrubber: EPN: SCR010211, FINs: SCR 36 and SCR 30, SPCAU36 and EPN: SCR12 and FIN: WPS12 – Wet particulate scrubber.

Tetrakis (Dimethylamido) Hafnium	99%	<10
Tetrakis (Dimethylamido) Platinum	99%	<10
Tetramethyl disiloxane	90%	10
Trifluoromethane sulfonyl Fluoride	90%	10

### Table 5 – NOx

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)	
Nitric Oxide	50%	10	
Nitrogen Dioxide	70%	10	
Nitrogen Trioxide	70%	10	
Nitrosyl Chloride	98%	10	

Table 6 – Hyundes			
Compound	Removal efficiency	Max. Outlet gr/DSCF	
Arsine - Arsenic Pentoxide	99.6%	0.01	
Diborane - Boric Acid	99.6%	0.01	
Phosphine - Phosphorous			
Pentoxide	99.6%	0.01	
Diethyl Telluride -			
Tellurium Dioxide	99.6%	0.01	
Germane - Germanium			
Dioxide	99.6%	0.01	
Silane - Silicon Dioxide	99.6%	0.01	
Iridium Hexafluoride -			
Iridium Dioxide	99.6%	0.01	
Stannic Chloride -			
Stannic Dioxide	99.6%	0.01	
Titanium Trichloride -			
Titanium Dioxide	99.6%	0.01	
Titanium Tetrachloride -			
Titanium Dioxide	99.6%	0.008	
Vanadium Tetrachloride -			
Vanadium Pentoxide	99.6%	0.01	

### Table 6 – Hydrides

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### Section X - Attachment A – Tables 1-8

Removal Efficiencies / Maximum outlet concentration (ppmv) and outlet grain loading for the following scrubbers: Caustic Scrubber: EPN: SCR010211, FINs: SCR 36 and SCR 30, SPCAU36 and EPN: SCR12 and FIN: WPS12 – Wet particulate scrubber.

Stannic Chloride -			
Stannic Dioxide	99.6%	0.01	· · ·
Titanium Trichloride -			
Titanium Dioxide	99.6%	0.01	

Table 7 - Acutely Toxic	Corrosive
-------------------------	-----------

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)
Arsenic Pentafluoride	97%	10
Arsenic Trifluoride	90%	10
Bromine	98%	10
Carbonyl Fluoride	99%	13
Cyanogen Chloride	90%	10
Germanium Tetrafluoride	97%	10
Hydrogen Cyanide	99%	50
Phosgene	95%	10
Sulfur Tetrafluoride	97%	10
Sulfuryl Chloride	95%	10
Sulfuryl Chloro Fluoride	90%	10
Sulfuryl Fluoride		10

### **Table 8 - Fluorinated Oxidizers**

Compound	Scrubber Removal Efficiency	Max Outlet PPMV (ppmv)
Bromine Chloride	99%	25
Bromine		
Pentafluoride	98%	10
Bromine		
Trifluoride	99%	13
Chlorine		
Monofluoride	99%	25
Chlorine		
Trifluoride	99%	13
Fluoroxytrifluoro		
methane	50%	10
Iodine		
Heptafluoride	50%	10
Iodine		
Pentafluoride	99%	10
Perchloryl Fluoride	50%	10
Tetrafluoro hydrazine	50%	10

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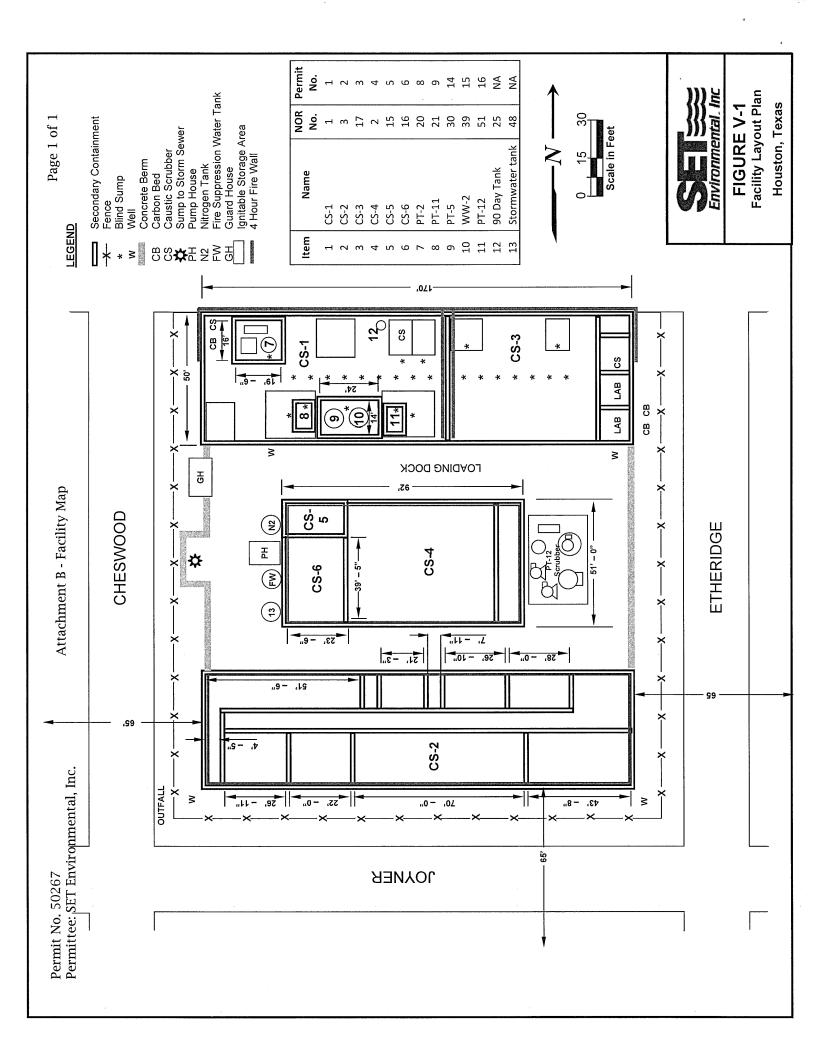
### Section X - Attachment A - Tables 1-8

Removal Efficiencies / Maximum outlet concentration (ppmv) and outlet grain loading for the following scrubbers: Caustic Scrubber: EPN: SCR010211, FINs: SCR 36 and SCR 30, SPCAU36 and EPN: SCR12 and FIN: WPS12 – Wet particulate scrubber.

Trifluoromethyl			
hypofluorite	50%	10	<b>I</b>
Xenon Difluoride	98%	10	
Fluorine	99%	25	

### Attachment A – Legal Description of Facility

Lots Nine (9), Ten (10), Eleven (11), Twelve (12), Thirteen (13), Fourteen (14), Fifteen (15), Sixteen (16) of Block 38 of Kings Court, an addition in the City of Houston, Harris County, Texas according to the map thereof, recorded on Volume 7, Page 65, of the Map of Records of Harris County, Texas.



Classification	Revision No.	Application Date	Purpose
Renewal with minor amendments	0	November 8, 2022	Application for renewal of Permit No. 50267 issued on May 10, 2013
Revisions to permit renewal application	1	December 6, 2022	Administrative NOD Responses
Revisions to permit renewal application	2	March 12, 2023 November 16, 2023	Technical NOD Responses (IHW) Technical NOD Responses (Air Permits)
			and the second
		N N	

### Attachment C – Permit Application Revision Chronology

### Attachment D - List of Incorporated Application Materials

The following is a list of Part A and Part B Industrial & Hazardous Waste Application elements which are incorporated into all Industrial & Hazardous Waste permits by reference as per Section I.B.

### **TCEQ Part A Application Form**

- I. General Information
- II. Facility Background Information
- III. Wastes and Waste Management
- IV. Index of Attachments

### TCEQ Part B Application Form

- I. General Information
- A. General Information
- B. TCEQ Core Data Form (Form 10400)
- C. Signature Page

D. Interim Status Land Disposal Unit(s) Certification (Reserved)

Table I - General Information

Table I.1 - Description of Proposed Application Changes

II. Facility Siting Criteria

A. Requirements for Storage or Processing Facilities, Land Treatment Facilities, Waste Piles, Storage Surface Impoundments, and Landfills

B. Additional Requirements for Land Treatment Facilities (Reserved)

C. Additional Requirements for Waste Piles (Reserved)

D. Additional Requirements for Storage Surface Impoundments (Reserved)

E. Additional Requirements for Landfills (and Surface Impoundments Closed as

Landfills with Wastes in Place) (Reserved)

F. Flooding

G. Additional Information Requirements

Table II – Facility Siting Criteria Information

- III. Facility Management
  - A. Compliance History and Applicant Experience
  - B. Personnel Training Plan
  - C. Security
  - D. Inspection Schedule
  - E. Contingency Plan
  - F. Emergency Response Plan

Table III.D. - Inspection Schedule

Table III.E.1. - Arrangements with Local Authorities

Table III.E.2. - Emergency Coordinators

Table III.E.3. - Emergency Equipment

IV. Wastes And Waste Analysis

- A. Waste Management Information (Reserved)
- B. Wastes Managed In Permitted Units
- C. Sampling and Analytical Methods
- D. Waste Analysis Plan

Table IV.B. - Wastes Managed in Permitted Units Table IV.C. - Sampling and Analytical Methods

- V. Engineering Reports
  - A. General Engineering Reports
  - B. Container Storage Areas
  - C. Tanks and Tank Systems
  - D. Surface Impoundments (Reserved)
  - E. Waste Piles (Reserved)
  - F. Land Treatment Units (Reserved)
  - G. Landfills (Reserved)
  - H. Incinerators (Reserved)
  - I. Boilers and Industrial Furnaces (Reserved)
  - J. Drip Pads (Reserved)
  - K. Miscellaneous Units (Reserved)
  - L. Containment Buildings (Reserved)

Table V.A. Facility Waste Management Handling Units Table V.B. - Container Storage Areas Table V.C. - Tanks and Tank Systems

### VI. Geology Report

- A. Geology and Topography
- B. Facility Groundwater (Reserved)
- C. Exemption from Groundwater Monitoring for an Entire Facility (Reserved)
- D. Unsaturated Zone Monitoring (Reserved)

### VII. Closure And Post-Closure Plans

- A. Closure
- B. Closure Cost Estimate
- C. Post-closure (Reserved)
- D. Post-closure Cost Estimate (Reserved)
- E. Closure and Post-Closure Cost Summary (Reserved)

Table VII.A. - Unit Closure Table VII.B. - Unit Closure Cost Estimate

### VIII. Financial Assurance

- A. Financial Assurance Information Requirements for all Applicants
- B. Applicant Financial Disclosure Statements for a new permit, permit amendment, or permit modification, or permit renewal
- C. Applicants Requesting Facility Expansion, Capacity Expansion, or New Construction

### Attachment D - List of Incorporated Application Materials

Information for Applicants Subject to Financial Capability Requirements (Reserved)

IX. Releases From Solid Waste Units And Corrective Action

A. Preliminary Review Checklists For Applications for a New Hazardous Waste Permit (Reserved) For Applications for a Renewal/Amendment/Modification of an Existing Hazardous Waste Permit Preliminary Review Facility Checklist Preliminary Review Unit Checklist Appendices to Preliminary Review (PR)

X. Air Emission Standards

- A. Process Vents
- B. Equipment Leaks
- C. Tanks, Surface Impoundments, and Containers

D. "One - Stop" Permit

Table X.A. - Process Vents

Table X.B. - Equipment Leaks

Table X.C. - Tanks, Surface Impoundments, and Containers Subject to Air Emission Controls

Table X.D.1(a) - Emission Point Parameters

General Instructions for Table X.D.1(a)

Table X.D.7 - For Fugitive Sources

Table 74-82 - Storage Tank Summary

XI. Compliance Plan (Reserved)

 XII. Hazardous Waste Permit Application Fee Table XII.A. – Hazardous Waste Units (For Application Fee Calculations) Table XII.B. - Hazardous Waste Permit Application Fee Worksheet

XIII. Confidential Material (Reserved)

### Attachment E - List of Permitted Facility Units

TCEQ Permit Unit No.1	Unit Name	NOR No. <sup>1</sup>	Unit Description	Capacity	Unit Status <sup>2</sup>
1	Process Container Storage Area, CS-1	001	Container Storage Area	6,600	Active
2	Process Container Storage Area, CS-2	003	Container Storage Area	88,880	Active
3	Process Container Storage Area, CS-3	017	Container Storage Area	11,110	Active
4	Process Container Storage Area, CS-4	002	Container Storage Area	48,400	Active
5	Process Container Storage Area, CS-5	015	Container Storage Area	880	Active
6	Process Container Storage Area, CS-6	016	Container Storage Area	15,840	Active
8	PT-2	020	Tank	1,870	Active
9	PT-11	021	Tank	1,615	Active
14	PT-5	030	Tank	7,000	Active
15	WW-2	039	Tank	6,500	Proposed to Close
16	PT-12	051	Tank	1,548	Active

### **Authorized Permitted Units**

### Historical Permitted Units No Longer Subject to this Permit<sup>4</sup>

TCEQ Permit Unit No. <sup>1</sup>	Unit Name	NOR No. <sup>1</sup>	Unit Description <sup>3</sup>	Capacity	Unit Status <sup>2</sup>
7	PT-1	019	Tank, Clean Closed 10-7-2003, Cut-up and Disposed		Closed

Sheet 1 of 2

### Attachment E - List of Permitted Facility Units

	r		I and the second s	T	1
10	FB-1	008	Tank, Clean Closed 5-29-2009 Cut-up and Disposed	4,000	Closed
11	FB-2	009	Tank, Clean Closed 5-29-2009 Cut-up and Disposed	4,000	Closed
12	FB-3	010	Tank, Clean Closed 5-29-2009 Cut-up and Disposed	4,000	Closed
13	FB-4	011	Tank, Clean Closed 5-29-2009 Cut-up and Disposed	4,000	Closed

<sup>1</sup>Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.

<sup>2</sup>Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

<sup>3</sup>If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.

<sup>4</sup>The historical units are closed and/or no longer subject to RCRA permit requirements and [is/are] included in this table for informational purposes.

### Attachment F - Emission Sources - Maximum Allowable Emission Rates

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

		Air Contaminan		Emission Rates
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lbs/hour	TPY (4)
CAR010211	Carbon Bed	VOC (5)	1.80	3.29
	010211 and Scrubber	Cl2 (5)	1.06	0.19
	SCR010211	HCl (6)	0.72	0.91
	PT-2 and PT-11 through SCR010211	SO2 (6)	0.76	0.27
CAR30	Carbon Bed controlling Lab Pack Fume Hoods	VOC	0.11	0.50
SCR30	Scrubber controlling Lab Packs	HCl	<0.01	<0.01
SPCT 010211	Chemical Treatment Area Caustic Scrubber	IOC	<0.01	<0.01
SCR 36 / SPCAU36	Cylinder QC Caustic Scrubber	HCl	<0.01	<0.01
PT-5	Caustic Storage Tank	IOC	<0.01	<0.01
Fugitives	Fugitives (7)	VOC	0.63	2.76
SCR12	PT-12 Process	РМ	0.10	0.08
	Tank PT-12 through WPS12 and SCR12	PM10	0.10	0.08
		PM2.5	0.02	0.02
		NOX	0.91	0.23
		SO2	0.06	0.25
		HF	0.15	0.66
		HCL	1.58	2.39

### Attachment F - Emission Sources - Maximum Allowable Emission Rates

Emission Point	Source Name	Air Contaminant	Emission Rates		
No. (1)	(2)	Name (3)	lbs/hour	TPY (4)	
	r confiction and contraction with the contraction of the second se	CL2	0.36	0.79	
		Ammonia	1.50	6.57	
		H2S	0.83	0.50	
		IOC	11.08	26.22	

### Emission Sources - Maximum Allowable Emission Rates

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

3)	Exempt Solvent	- Those carbon compounds or mixtures of carbon compounds used as solvents which
		have been excluded from the definition of volatile organic compound.
	VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
		Total VOC includes HAPs.
	IOC-U	- inorganic compounds (unspeciated)
	NO <sub>x</sub>	- total oxides of nitrogen
	SO <sub>2</sub>	- sulfur dioxide
	PM	- total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
	PM <sub>10</sub>	<ul> <li>total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented</li> </ul>
	PM <sub>2.5</sub>	- particulate matter equal to or less than 2.5 microns in diameter
	HAP	- hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40
		Code of Federal Regulations Part 63, Subpart C
4)	Compliance with	annual emission limits (tons per year) is based on a 12-month rolling period.

(4 8 I

(5) Emissions when controlling Process Tank PT-11.(6) Emissions when controlling Process Tank PT-2.

(7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

### 7.0 EVACUATION PLAN

Should evacuation of the facility be required, the following procedures will be implemented by the EC:

- Personnel will be notified by one or more of the following methods:
  - o Alarm

An automatic fire suppression system is equipped with three warning devices. When the system first detects an ambient temperature increase of 15°F in one minute or less or a total ambient temperature of 190°F, an alarm bell will sound, notifying employees of a potential problem. When an adjacent monitor detects these temperatures, a horn will sound, and a strobe will begin to flash. Evacuation of the facility by all employees except those responding to the emergency is required when the first alarm sounds.

• Voice, signal and/or

If necessary, the EC will phone the receptionist at the 5738 Cheswood Street office and provide instructions on appropriate evacuation or instruction on shelter in place.

• All processing and operations will be safely and quickly concluded.

If possible, the following operations will be shut down to prevent the spread of fire:

- All open drums and exposed hazardous waste will be covered.
- Tank trucks will be shut off or removed from the facility.
- Drum compactor will be stopped.
- Close all valves of compressed gas cylinders being processed.
- Close valve to flash point tester in lab if being used.
- Personnel will evacuate through the nearest facility emergency exit.
- The primary command center where employees will be evacuated to is the area South of the 5738 Cheswood Street Office. However, if the wind direction (determined by windsocks located at the facility), is towards this area, the primary command center is the nearest safe intersection upwind of the facility Etheridge and Moline or Etheridge and Joyner (see evacuation plan and map shown in Figure C-2).
- Immediately after the facility is evacuated, each supervisor will report to the Emergency Coordinator whether their employees have successfully evacuated the facility. If any employee(s) are not accounted for, the supervisor will identify the area where they are believed to be located within the facility. A current list of employees arranged by supervisor will be maintained with copies of this plan to assist in accounting for all employees.
- If complete evacuation of the facility is required, it will proceed in orderly fashion

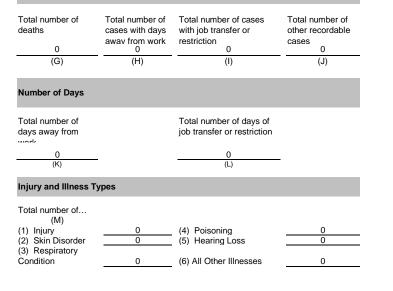
### OSHA's Form 300A (Rev. 01/2004) Summary of Work-Related Injuries and Illnesses

All establishments covered by Part 1904 must complete this Summary page, even if no injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write "0."

Employees former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR 1904.35, in OSHA's Recordkeeping rule, for further details on the access provisions for these forms.

### Number of Cases



### Post this Summary page from February 1 to April 30 of the year following the year covered by the form

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instruction, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any aspects of this data collection, contact: US Department of Lahor, CSHA Office of Statistics. Room N-3644 200 Constitution Ave NW Washington DC: 20210. Do not send the completed forms to this office.



Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

nment information			
establishment name SET Environ	mental Inc.		
t 5738 Cheswood			
Houston	State	ТХ	Zip 77087
try description (e.g., Manufacture of Waste Treatment and Storage	motor truck trailers)		
dard Industrial Classification (SIC), if	known (e.a., SIC 3715)		
American Industrial Classification (N	IAICS), if known (e.g., 336	5212)	
al average number of employees hours worked by all employees last	43 91,878		
	/ result in a fine.		
ify that I have examined this docume lete.	nt and that to the best of r	ny knowledge the entries a	are true, accurate, and
Daniel Didier			General Manager
Company executive			Title
(740) 045 0740			4/47/0000
			1/17/2022 Date
	establishment name <u>SET Environ</u> t <u>5738 Cheswood</u> Houston try description (e.g., Manufacture of Waste Treatment and Storage tard Industrial Classification (SIC), if <u>4</u> <u>9</u> <u>5</u> <u>3</u> American Industrial Classification (N <u>5</u> <u>6</u> <u>2</u> <u>2</u> ment information al average number of employees hours worked by all employees last <b>b</b> ringly falsifying this document may fy that I have examined this docume lete. Daniel Didier	establishment name <u>SET Environmental Inc.</u> t <u>5738 Cheswood</u> <u>Houston</u> State try description (e.g., Manufacture of motor truck trailers) <u>Waste Treatment and Storage</u> tard Industrial Classification (SIC), if known (e.g., SIC 3715) <u>4</u> <u>9</u> <u>5</u> <u>3</u> American Industrial Classification (NAICS), if known (e.g., 330 <u>5</u> <u>6</u> <u>2</u> <u>2</u> <u>1</u> <u>1</u> <b>hent information</b> al average number of employees <u>43</u> hours worked by all employees last <u>91,878</u> e tringly falsifying this document may result in a fine. If y that I have examined this document and that to the best of relete. <u>Daniel Didier</u> Company executive (713) 645-8710	establishment name <u>SET Environmental Inc.</u> t <u>5738 Cheswood</u> <u>Houston</u> State <u>TX</u> try description (e.g., Manufacture of motor truck trailers) <u>Waste Treatment and Storage</u> tard Industrial Classification (SIC), if known (e.g., SIC 3715) <u>4 9 5 3</u> American Industrial Classification (NAICS), if known (e.g., 336212) <u>5 6 2 2 1 1</u> ent information al average number of employees <u>43</u> hours worked by all employees last <u>91,878</u> e tringly falsifying this document may result in a fine. Ify that I have examined this document and that to the best of my knowledge the entries a lete. <u>Daniel Didier</u> Company executive (713) 645-8710

Summary of Work-Related Injuries and Illnesses OSHA's Form 300A (Rev. 01/2004)

All establishments covered by Part 1904 must complete this Summary page, even if no injurles or litnesses occurred during the year. Remember to review the Log to verify that the entries are complete

Using the Log, count the individual entries you made for each calegory. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write '0."

Employees former employees, and their representatives heve the right to review the OSHA Form 300 in Its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFF 1904.35, in OSHA's Recordkeeping rule, for further dataks on the access provisions for those forms.

Number of Cases

### Total number of cases with job transfer or 0 Ξ restriction Total number of cases with days away from work Ē 0 Total number of 0 0 deaths

Total number of other recordable

0 3

cases

Number of Days Total number of days of days away from job transfer or restriction
---

Injury and Illness Types

# Total number of...



# Post this Summary page from February 1 to April 30 of the year following the year covered by the form

Public reporting burden for this calledion of information is estimated to average 50 minutes per response, including time to review the instruction, asarch and gather the estimatedica, and compilera and review the collection of information. These as a more required to required to region of information indexes it displays a currently valid OMB control number. If you have as any command about these estimates or any sepacts of this data endevelor, on contact: US Department of displays a currently valid OMB control number. If you have a styro and about these estimates or any sepacts of this data endevelor, outact: US Department of Labor; OSHA Office of Statistics. Room N-5644, 200 Constitution Ave, NW, Weahindton, DC 20210. Doing and the completed forms to this office.

Establishmant information		
Your establishment name SET Environmental inc.		
Street 5738 Cheswood		
City Houston Str	State	Zip 77087
Industry description (e.g., Manufacture of motor truck trailers) Waste Treatment and Storage	ck trailers)	
Standard Industrial Classification (SIC), if known (e.g., SIC 3715) $\frac{4}{5} - \frac{3}{-3}$ OR North American Industrial Classification (NAICS), if known (e.g., 336212) $\frac{5}{-5} - \frac{6}{-2} - \frac{2}{-1} - \frac{1}{-1}$	.в., SIC 3715) known (е.g., 336212)	
Employment information		
Annual average number of employees	44	
Total hours worked by all employees last	97,138	
Sign here		
Knowingly faisifying this document may result in a fine.	, a fine.	
	, , ,	
l certify that I have examined this document and that to be bear to the transfer of the entries are true, accurate, and complete	alto bas best the rest of the recent of the	the entries are true, accurate, and
Company executive	X	General Manager Title
(713) 645-8710 Phone		1/16/2023 Date



Form approved OMB no. 1218-0176

### OSHA's Form 300A (Rev. 01/2004) Summary of Work-Related Injuries and Illnesses

All establishments covered by Part 1904 must complete this Summary page, even if no injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write "0."

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### Number of Cases

Total number of deaths 0 (G)	Total number of cases with days away from work 1 (H)	Total number of cases with job transfer or restriction 0 (I)	Total number of other recordable cases 1 (J)
Number of Days			
Total number of days away from		Total number of days of job transfer or restriction	
<u>4</u> (К)	-	0 (L)	-
Injury and Illness 1	Types		
Total number of (M) (1) Injury (2) Skin Disorder (3) Respiratory Condition	1 1	(4) Poisoning (5) Hearing Loss (6) All Other Illnesses	0 0 0

### Post this Summary page from February 1 to April 30 of the year following the year covered by the form

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Form approved OMB no. 1218-0176

Occupational Safety and Health Administration

Esta	ablish	ment information			
	Your e	stablishment name SET Environ	nmental Inc.		
	Street	5738 Cheswood			
	City	Houston	State	ТХ	Zip77087_
	Industr	y description (e.g., Manufacture o Waste Treatment and Storage	f motor truck trailers)		
	Standa	ard Industrial Classification (SIC), i	f known (e.g., SIC 3715)		
OR	North /	American Industrial Classification (		212)	
Emp	oloym	ent information			
	Annua	average number of employees	46		
	Total h year	ours worked by all employees las	t 100,856		
Sigr	n here				
	Knowi	ngly falsifying this document ma	ay result in a fine.		
	I certify comple	v that I have examined this docum ete.	ent and that to the best of n	y knowledge the entrie	es are true, accurate, and
		Chuck Kilgus			General Manager
		Company executive			Title
		(713) 645-8710 Phone			1/15/2024 Date

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director* 



### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 14, 2020

### CERTIFIED MAIL #91 7199 9991 7038 7442 6487 RETURN RECEIPT REQUESTED

Mr. Daniel A. Didier, Compliance Director SET Environmental, Inc. 5738 Cheswood St. Houston, Texas 77087

Re: Notice of Enforcement for Compliance Evaluation Investigation at: SET Environmental, 5738 Cheswood St., Houston (Harris County), Texas Regulated Entity No.: 100607126, TCEQ SWR No.: 50267, Permit No.: 50267, EPA ID No.: TXD055135388

Dear Mr. Didier:

On October 8, 2019, Mr. Casimir Onwuka of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for industrial solid waste. During this investigation, certain outstanding alleged violations were documented and have been resolved based on subsequent corrective action. In addition, a certain alleged violation and additional issues were documented which remain outstanding. Enclosed is a summary which lists the investigation findings and recommended corrective actions. Additional recommended corrective actions may be provided by the Enforcement Division.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <u>http://www.tceq.texas.gov</u> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Houston Region Office at (713) 767-3500 or the Central Office Publications Ordering Team at 512-239-0028. Copies of applicable federal regulations may be obtained by calling Environmental Protection Agency's Publications at 800-490-9198.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of one of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violation and additional issues.

## In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

TCEQ Region 12 • 5425 Polk St., Ste. H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

Mr. Daniel A. Didier Page 2 April 14, 2020

Also, if you believe the violations documented in this notice have been cited in error, **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Waste Section Enforcement Division, MC 219 Re: Enforcement Meeting Request Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Mr. Onwuka in the Houston Region Office at (713) 767-3606.

Sincerely,

Carlos Roms for Guddalupe Quiroz

Guadalupe Quiroz, Team Leader Waste Section Houston Region Office

GQ/CEO/na

Enclosures: Summary of Investigation Findings

### **Summary of Investigation Findings**

### SET ENVIRONMENTAL

5738 CHESWOOD ST HOUSTON, HARRIS COUNTY, TX 77087

Additional ID(s): 50267 P00724 TXD055135388 50267

### **AREA OF CONCERN**

Track No: 742002 30 TAC Chapter 335.69(d)(1) 40 CFR Chapter 262.34(c)(1)(i) 40 CFR Chapter 265.173(a)

### Alleged Violation:

Investigation: 1612830

Comment Date: 03/30/2020

Investigation # 1612830 Investigation Date: 10/08/2019

The facility failed to ensure that containers holding hazardous waste remain closed except when adding or removing waste.

Investigation of the Satellite Accumulation Areas (SAAs) in the facility's laboratory revealed two open containers holding hazardous waste when waste was not being added to or removed from the containers. Containers holding hazardous waste must remain closed except when adding or removing from the containers.

**Recommended Corrective Action:** The facility was requested to ensure that containers in SAAs remain closed except when adding or removing waste and provide documentation to the TCEQ to verify compliance.

**Resolution:** This alleged violation has been resolved as an area of concern based on subsequent corrective action performed by the facility. The laboratory technician closed both containers at the time of investigation.

-

Investigation # 1612830

Investigation Date: 10/08/2019

### **Summary of Investigation Findings**

### SET ENVIRONMENTAL

5738 CHESWOOD ST HOUSTON, HARRIS COUNTY, TX 77087

Additional ID(s): 50267 P00724 TXD055135388

50267

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 741974 Compliance Due Date: To Be Determined 30 TAC Chapter 305.125(1)

PERMIT II.A.2./IV.B.3.a.

### Alleged Violation:

Investigation: 1612830

Comment Date: 04/13/2020

No person may cause, suffer, allow, or permit any activity of storage or disposal of any industrial solid waste or municipal hazardous waste unless such activity is authorized by a permit, amended permit, or other authorization from the Texas Commission on Environmental Quality (commission) or its predecessor agencies; or permit its wastes to be stored, processed, or disposed of at an unauthorized facility or in violation of a permit.

The facility failed to prevent the receipt, storage, and shipment of unauthorized waste without the required permit.

On August 22, 2018, the facility accepted and stored for 36 days one 55-gallon drum containing 226 kilograms of polychlorinated biphenyl (PCB) contaminated waste without first obtaining authorization from the TCEQ. The facility also shipped the unauthorized waste to an unauthorized facility, US Ecology Texas, Robstown, Texas, for disposal in a landfill.

During the investigation, the facility representative indicated the waste had been excavated and disposed of at an authorized facility, Veolia ES Technical Solutions in Port Arthur, Texas.

**Recommended Corrective Action:** The facility shall ensure that only authorized wastes are received and stored onsite. The facility shall also ensure that wastes are disposed of at authorized facilities.

### ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 741985 30 TAC Chapter 335.152(a)(7) 40 CFR Chapter 264.173

PERMIT II.C.1.j. and C.2.g.

Alleged Violation:

Investigation: 1612830

Comment Date: 04/02/2020

The facility failed to ensure that containers holding hazardous waste were always closed except when adding or removing waste.

During the investigation of permitted Container Storage Areas (CSAs) CS-2 and CS-3, two 55-gallon drums and one 55-gallon drum, respectively, containg hazardous waste were open.

**Recommended Corrective Action:** The facility shall close the drums and provide documentation of corrective action taken to the TCEQ to verify compliance.

**Resolution:** This alleged violation has been resolved based on documentation, including photographs, received from the facility on December 20, 2019, indicating the drums have been fitted with new lids ensuring they remain closed.

### Track No: 741993

30 TAC Chapter 305.125(1)

PERMIT V.A.1.

**Alleged Violation:** 

Investigation: 1612830

Comment Date: 04/02/2020

The facility failed to clearly identify authorized units with signs indicating the "TCEQ Permit Unit No.", as required by the permit.

During the investigation, it was noted that permitted tank, PT-12, had no identifying sign, and signs on permitted Container Storage Areas (CSAs), CS1 and CS3 had faded and were illegible.

**Recommended Corrective Action:** The facility was requested to clearly identify the permitted units with signs indicating the authorized units as listed in the permit and provide documentation demonstrating corrective action taken to the TCEQ to verify compliance.

**Resolution:** This alleged violation has been resolved based on documentation including photographs, received from the facility on December 20, 2019, indicating that identifying signs have been placed on the identified permitted tank and CSAs.

### **ADDITIONAL ISSUES**

Description Item #2

### Additional Comments

During the investigation, debris and equipment were observed in the secondary containment associated with a permitted tank, PT-2. The secondary containment should be operated free of debris and equipment to ensure maintenance of 100 percent capacity of the largest tank within its boundary.

The facility was requested to clear the secondary containment of debris and equipment and to provide documentation demonstrating corrective action taken to the TCEQ to verify compliance.

This additional issue has been addressed based on documentation received from the facility on December 20, 2019, indicating that the items and the equipment observed in the secondary containment have been removed.

### Item #6

### Investigation # 1612830

During the investigation of Container Storage Area (CSA), CS1, waste drums were observed with multiple labels, some indicating both hazardous and non-hazardous waste on the same drum. The facility representative explained that the labels became invalid once the waste drums and accompanying shipping manifests were processed to confirm the waste and barcodes generated to replace the labels for identification.

The facility is advised to review the procedures for consideration of having markers or labels immediately removed or crossed out from containers once they become invalid to minimize mishandling of waste.



December 20, 2019

TCEQ Casimir Onwuka 5425 Polk Street, Suite H Houston, TX 77023

Re: Response to October 8, 2019 CEI Registration/Permit No. 50267 EPA I.D. No. TXD055135388 CN600360200, RN100607126

Dear Mr. Onwuka,

Please accept this letter and attachments in response to issues identified during the October 8, CEI. Resolution of the investigation findings are summarized below and listed in the same order as they are listed in Exit Interview.

Issue 1: Missing Permit Sign for PT-12 and illegible permits signs for CS-1 and CS-3

*Response:* On 10/9/2019 SET Environmental added the sign for PT-12 and replaced the signs for CS-1 and CS-3 as pictured below.

SET Environmental, Inc	SET Environmental, Inc	*
CS-1	CS-3	PT-12
Permit Unit No. 001	Permit Unit No. 003	Permit Unit No. 016
N.O.R. No. 001	N.O.R. No. 017	NOR No. 051

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5738 Cheswood Street · Houston, Texas 77087 · (713) 645-8710 (800) 598-7328 · FAX (713) 649-1027 Visit our website @ www.setenv.com Casimir Onwuka December 20, 2018 Page 2

Issue 2: Secondary containment was not free of debris for tank PT-2

Response: On 10/8/2019 SET Environmental removed pallets, a stool and a bucket from the containment system for PT-2.



Issue 3: Open containers in laboratory satellite accumulation area and in container storage area CS-2.

Response: During the inspection on 10/8/2019 SET Environmental closed the two satellite accumulation area containers in the laboratory fume hood. On 10/8/19 SET Environmental purchased new container lids for PPE disposal in the lab and CS-2. Lids were delivered and installed on Monday October 14th.



Satellite Accumulation in Lab Hood

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Casimir Onwuka December 20, 2018 Page 3



Remaining Issues 4-6: SET received and shipped unauthorized waste to an unauthorized facility. TCEQ requested a copy of clean-up plan and waste removal documentation.

**Response:** SET reported this issue to the TCEQ on July 28, 2019. US Ecology also reported to TCEQ Region 14 – Corpus Christi. During the CEI on October 8, 2019, SET explained and provided documents (manifests) that the unauthorized waste was removed from the landfill and disposed of properly. SET Environmental requested a copy of the clean-up plan from US Ecology on October 8<sup>th</sup>; however, the document SET received is attached.

If you have any questions regarding this response or require any additional information, please feel free to contact me at your convenience, <u>ddidier@setenv.com</u> of (713) 641-7574.

Sincerely,

Daniel A. Didier, CHMM Compliance Director SET Environmental, Inc

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3277 County Road 69, P.O. Box 307, Robstown, TX 78380 800.242.3209 361.387.0794

September 26, 2019

Tim Perdue Waste Section Manager Texas Commission on Environmental Quality 6300 Ocean Dr., Unit 5839 Corpus Christi, TX 78412-5839

RE: Notification of Incident- PCB drum US Ecology Texas, Inc. - Robstown, Texas TCEQ Permit No. HW-50052 EPA ID: TXD069452340-1 RN101445666/CN603247974

Dear Mr. Purdue,

As previously notified and discussed with TCEQ-Region 14 team members on July 19, 2019 and August 5, 2019 this letter serves as the report involving the 55-gallon PCB drum that was mistakenly sent to USET by SET Environmental for disposal as a non-TSCA regulated waste.

In summary, on September 28, 2018, the SET Environmental Houston facility sent, what was believed to be, one 55-gallon drum of non-hazardous waste to US Ecology Texas (USET). The SET Houston facility was later notified by the generator (North Shore Gas Company) that the drum apparently contained 116 ppm PCBs. Documents submitted to the SET Houston facility before the waste was received indicated that the waste was not TSCA regulated. The waste profile specified that waste contained less than 50 ppm PCB and the analysis submitted with the waste profile indicated that PCBs were below laboratory detection limits. During the review of the Annual PCB Summary Report, a SET program manager determined that the PCB analysis reported in ug/kg were incorrectly converted to ppm and the wrong analysis was submitted with the waste profile to the SET Houston facility.

The incident report was sent to USET on July 29, 2019 and includes the detailed investigation findings and corrective actions, please see Appendix 1. USET immediately notified TCEQ-Region 14 (Stephanie Lichtblau) on July 29, 2019and began removal of the material from the landfill on July 30, 2019. USET completed the removal actions on August 2, 2019. The removed

tionqualed knows: Solutions you not truct USecology.com material was then placed into two-rolloff boxes and taken offsite for incineration to Veolia (Port Arthur, TX 77640) on September 18, 2019.

If you have any questions or need additional information regarding this incident, please contact me via email at celina.camarena@usecology.com or by phone at 361-387-3518 ext. 2223.

Sincerely,

Celina Camarena, Ph.D. Environmental, Health and Safety Manager

cc: Mr. Srinath Venkat, P.E. Industrial and Hazardous Waste Permits Section Texas Commission on Environmental Quality 12100 Park 35 Circle, MC-130 Austin, Texas 78573

# **APPENDIX 1**

SET Environmental, Inc. Root-Cause Analysis Report

### SET Environmental, Inc.

### **Root Cause Analysis Report**

Incident Number:	2019-1327
Date of Incident:	September 28, 2018
Description:	A 55-gallon drum of waste liquids containing 116 ppm PCB-1254 was incorrectly transported to and disposed at the US Ecology Texas Landfill, Robstown, TX as non-TSCA regulated waste.
Prepared by:	Stevan Pavlovich, CSP, CHMM Director, HSE
Approved by:	Joel Tameling, President
Date Approved:	July 29, 2019

Investigation Participants: Stevan Pavlovich, Kevin Kiefer, Nate Bartley

### **Executive Summary:**

On Friday, September 28, 2018, a 55-gallon drum containing 226 kilograms of PCBcontaminated liquids was incorrectly transported from the SET Environmental, Inc. treatment, storage and disposal facility in Houston TX (SET TSDF) to the US Ecology hazardous waste landfill in Robstown TX as non-regulated waste where the waste was treated and disposed.

The drum was originally generated by the North Shore Gas Company, Libertyville, IL and SET Environmental, Inc. (SET) was contracted to transport and dispose of the waste. A sample was taken from the drum on June 6, 2018 and analysis of the sample completed on June 21, 2018. The analytical results report the sample as containing 116000  $\mu$ g/kg (116 ppm) of PCB-1254 (Arochlor 1254).

An error was made by an SET Account Manager in converting the units from  $\mu$ g/kg, as reported on the analytical report, to ppm. This error contributed to an incorrect waste determination being made and this documented on the waste profile which describes the waste as containing < 50 ppm PCB. An additional error was made by an SET customer services representative who mistakenly attached the analytical results associated with another waste container at the same site which contained no detectable concentration of PCBs.

The waste profile and incorrect analytical report were submitted to the SET TSDF Approvals Coordinator who approved the waste for acceptance at the SET TSDF. The waste drum was transported to the SET TSDF and received on 8/22/18. The drum was then stored at the SET TSDF until 9/27/18 when it was shipped to the US Ecology landfill for disposal.

On June 11, 2019, during review of the Annual PCB Summary Report for North Shore Gas Company, an SET program manager recognized that this report included an entry for waste shipped to the SET TSDF on 8/17/18. Follow up investigation after this review ultimately led to the discovery that one drum containing 116 ppm PCBs had been shipped to the Houston TSDF.

### **Detailed Description and Timeline of Events:**

On June 1, 2018, SET received a request from WEC Energy Group (WEC), to collect samples for the purpose of disposing of several 55-gallon drums of waste located at North Shore Gas Company, 2101 W. Peterson Road, Libertyville, IL 60048.

North Shore Gas is a subsidiary of WEC which delivers natural gas to customers in Chicago's northern suburbs. Regulated levels of PCB contamination have previously been detected in the North Shore Gas (NSG) distribution system. The source of the PCB contamination is believed to be from PCB-containing lubricants that were used at one time in the propane injection system air compressors at the Peterson Road facility. This equipment was removed from the facility in 2017 during remediation and decommissioning of the affected engines. It is believed that the remaining source of PCB's at this facility, that were detected during analysis of waste drums, is associated with residual amounts present in piping or other similar equipment. There are no other known sources as defined in the EPA PCB regulations (e.g. scrubbers or filter separators that would accumulate PCB liquid) installed in the North Shore Gas distribution system.

On June 6, 2018, an SET Account Manager travelled to the site and sampled three, 55-gallon drums containing liquids. The drums were assigned and marked with the numbers 1, 2 and 3, respectfully. Both drum number 1 and drum number 2 had been previously labeled by the generator with a "Used Oil" and "Nonhazardous Waste" label. Drum Number 3 had been previously marked and labeled by the generator as containing "Antifreeze and Glycol" and a "Universal Waste" label was affixed to the drum.

A chain of custody form was created by the SET Account Manager and sample numbers were assigned on the chain of custody form as: "NSG Peterson Rd #1", "NSG Peterson Rd #2, and "NSG Peterson Rd #3" to correspond with the three drums (1, 2, and 3). The chain of custody and the three samples were then shipped to Pace Analytical Services, LLC (Pace) in Minneapolis, MN for analysis for PCB Oil.

The samples were received by Pace on 6/16/18 and analysis of the samples was completed on 6/21/18. The sample results, recorded on the "Pace Project No. 40170981" report (Attachment

*A.),* were provided to a WEC Senior Environmental Consultant (representative) and the SET Account Manager on 6/25/18.

Analytical results recorded on this report specify that:

Sample "NSG Peterson Rd #2" contains 10700 µg/kg of PCB-1254 (Arochlor 1254),

Sample "NSG Peterson Rd #3" contains 116000 μg/kg of PCB-1254 (Arochlor 1254) and,

Sample "NSG Peterson Rd #1" contains no PCB's at the limit of detection.

The WEC representative submitted an email to the SET Account Representative the same day indicating that 2 of the three drums contained greater than 10 ppm PCB's.

The SET Account Manager reviewed the analytical report and correctly converted the results for sample "NSG Peterson Rd #2" from 10700  $\mu$ g/kg to 10.7 ppm. However, he incorrectly converted the results of sample NSG Peterson Rd #3" from 116000  $\mu$ g/kg to 11.6 ppm. On 6/27/18 the Account Manager forwarded an email to his designated SET customer services representative (CSR) with a summary of the results for all three drums including the notation "Sample 3 55-gallon drum of used antifreeze – PCB at 11.6 ppm."

On 7/19/18, the same SET Account Manager returned to the North Shore Gas Site in Libertyville, IL to collect an additional sample from one, 55-gallon drum containing used oil. The Account Manager assigned and marked this container as # 5 and a corresponding sample Identification number was assigned and recorded on the chain of custody as "Peterson Rd Oil #5." This sample was delivered to the same Pace laboratory to test for the presence of PCB oils and the results documented on the "Pace Project No. 40173016" report (*Attachment B*).

This report, which specified that no PCB's were present at the detection limit, was provided by Pace to a WEC representative on 7/30/18 and then forwarded to the SET CSR on 7/31/18.

On 8/01/18 the SET CSR submitted a request to the SET Profile Coordinator to determine if the SET TSDF, located in Houston, TX (USEPA ID number TXD055135388) could accept "low level PCB's in oily water and antifreeze." The email request included the description that Sample 2 represented a 55-gallon drum containing oily water containing PCB's at 10.7 ppm and that Sample 3 represented a 55-gallon drum of used antifreeze containing PCB's at 11.6 ppm. A copy of the "Pace Project No. 40170981" analytical report was also submitted to the profile coordinator. After requesting additional information regarding the process generating the waste and verification that the PCB's were not from a TSCA source, the SET Profile Coordinator created SET Profile number 134458 (*Attachment C*) on 8/7/18 to request acceptance of the two waste drums at the SET TSDF. The SET profile describes the waste name as "Oily water /

SET Environmental, Inc. Incident No. 2019-1327

Antifreeze, non-TSCA PCB" and, in the Waste Composition section of the profile, lists PCB concentration at < 50 ppm.

On 8/20/18, the SET CSR submitted SET Profile 134458 to the WEC representative for signature. However, the CSR mistakenly attached the "Pace Project No. 40173016" laboratory report that listed the results for the "Peterson Rd Oil #5" sample that was obtained from Drum #5. The signed profile and incorrect analytical report were then submitted by the SET CSR to the SET TSDF Approvals Coordinator who approved the waste for acceptance at the SET Houston TSDF.

The waste drums were removed by an SET Chicago division driver on 8/17/18 and transported to the SET Houston TSDF where they were accepted on 8/22/18. Uniform Hazardous Waste Manifest number 017176269 JJK (*Attachment D*) was used as the tracking and shipping document for the waste shipment.

The drums were stored at the SET Houston TSDF until 9/28/18 on which date they were transported to US Ecology Landfill for disposal. Uniform Hazardous Waste Manifest number 019420893 JJK (*Attachment E*) was used as the tracking and shipping document for the waste shipment from the SET Houston TSDF to the US Ecology Landfill for disposal.

On June 11, 2019, during review of the Annual PCB Report Summary prepared for North Shore Gas Company, an SET Program Manager discovered this report included an entry for waste shipped to the SET TSDF on 8/17/18. The annual summary had been generated by SET to assist North Shore Gas (WEC) in meeting its annual recordkeeping and reporting requirements as specified in 40 CFR 761.180, Subpart J.

Follow up investigation from this review ultimately led to the discovery that one of the drums shipped to the Houston TSDF contained 116 ppm PCB's and that the total weight of material shipped in the drums was 226 kg.

Following this discovery, notification was made to officials at the Houston TSDF, US Ecology and to WEC Energy Group on July 18, 2019.

### Causal Analysis:

### **Direct Causes**

 Human performance errors by SET Account Manager and Profile Coordinator in evaluating analytical results and correctly converting units from μg/kg to ppm.
 In reviewing the analytical results provided on the "Pace Project No. 40170981" report, the SET Account Manager, mistakenly converted the units for sample "NSG Peterson Rd #3" from 116000 μg/kg of PCB-1254 to 11.6 ppm. The Account Manager correctly converted the results reported for "NSG Peterson Rd #2" sample from 10700  $\mu$ g/kg of PCB-1254 to 10.7 PPM.

When questioned, the Account Manager stated he understands how to convert units between  $\mu$ g/kg and ppm and was able to demonstrate the correct conversion of units.

The Account Manager distributed an email to the SET CSR stating the results for "Sample 3" as 11.6 ppm PCB's which was then communicated to the SET Profile Coordinator. The Profile Coordinator is responsible for characterizing wastes in accordance with applicable regulations and completing waste profiles for disposal facilities on behalf of SET clients. Although, the Profile Coordinator had the correct analytical report, she failed to recognize that the results for sample number "NSG Peterson Rd #3", reported at 116000  $\mu$ g/kg of PCB-1254, would, after conversion of units, indicate a concentration of 116 ppm and not 11.6 ppm as stated on the email received from the SET CSR.

The Approvals Coordinator has extensive knowledge and experience in reviewing analytical reports and characterizing wastes on behalf of SET clients. It appears this human performance error was not due to a lack of knowledge.

# 2. <u>Human performance error by SET Customer Service Representative when attaching the incorrect analytical report.</u>

After receiving the completed SET profile 134458 from the SET Approvals Coordinator, the SET Customer Services Representative mistakenly submitted an incorrect analytical report (Pace Project 40173016), in association with the waste profile, to the WEC representative for signature. Additionally, both the signed profile and incorrect analysis was submitted to the SET TSDF Approvals Coordinator. As a result, the Approvals Coordinator received a profile that incorrectly listed the waste name as "Oily water / Antifreeze, non-TSCA PCB" and listed the PCB concentration of the waste at < 50 ppm as well as an analytical report that specified no detectable levels of PCB's.

Based on the information listed on the profile and analytical report, the waste was approved for acceptance at the SET TSDF as a non-TSCA regulated waste.

### **Contributing Factors**

- <u>Characterizing waste for regulatory requirements required conversion of units</u> While regulatory requirements for disposal of PCB's are expressed in parts per million (ppm), the analytical report expressed the results of the PCB analysis in micrograms per kilogram (µg/kg). This required a conversion of units to milligrams per kilogram (mg/kg) which is equal to ppm. If the analytical report had expressed the PCB concentrations in ppm, conversion of units would not have been required and the likelihood of errors in classifying the waste for disposal would have been significantly reduced.
- <u>Communication of incorrect results by Account Manager and CSR</u> The Profile Coordinator assumed that the PCB concentration of 11.6, specified in the email correspondence from the CSR, for "Sample 3" was correct.

### Root Cause

- 1. <u>Inadequate safeguards to correct errors during waste characterization and profiling</u> The current process used by SET to characterize waste streams in accordance with regulatory requirements and complete accurate waste profiles includes provisions to assure quality. Included among these are:
  - Limiting the role of waste characterization and profile creation to qualified individuals dedicated to this task and;
  - In the case of waste streams shipped to the SET TSDF, having an Approvals Coordinator, independent of the waste characterization role, who verifies information provided on waste profiles, analytical reports and other sources of information.

In this incident, due to the errors made by the Account Manager, Profile Coordinator and Customer Services Representative, the SET TSDF Approvals Coordinator received an inaccurate waste profile and the wrong analytical report which eliminated the possibility of recognizing the discrepancy which existed between the profile and correct analytical report.

Investigation of this incident discovered some significant findings, related to the waste characterization and profile creation process, which include:

- a. The waste profile does not include a reference to the associated analytical reports. Having a reference on the profile, or associated document, to the analytical report number could provide an additional quality assurance safeguard.
- b. The CSR, after receiving the signed profile, submitted the profile and wrong analysis directly to the Approvals Coordinator. The preferred practice, during SET's waste approval process, is for the signed profile to be submitted back to the Profile Coordinator who then submits the signed profile, analysis and other supporting documentation to the Approvals Coordinator. Had this occurred, it is less likely that the incorrect analysis would have being submitted to the Approvals Coordinator.

### **Corrective Actions:**

SET is currently in the late stages of development of an updated waste tracking management system that will be used in association with SET's TSDF and all third party TSFDs. This upgrade will offer significantly improved quality assurance features and support to personnel tasked with characterization of waste streams and creation of waste profiles, manifests, and labels Preliminary testing of the new software is scheduled to begin in August 2019 and a company-wide roll out is planned for January 1, 2020.

The following are some of the features of the revised program to help eliminate errors during characterization of waste streams and creation of profiles:

- 1. Defined user roles are established that limit system access to qualified staff who are authorized to characterize waste and create waste profiles.
- 2. The system will require that results for key analytes (including PCB, RCRA metals, etc.) must be entered into the waste profile section as they appear on the analytical report. Programming will automatically convert units for comparison with regulatory levels.
- 3. An enhanced attachments tab has been developed that allows for multiple documents (analytical results, correspondence, signed documents) to be uploaded for review/approval at the time of profile creation.

- 4. Newly created Analytical tab has been created which will require, for all waste streams, the entry of the laboratory report number, sample ID number and chain of custody number, when an analytical report has been submitted as part of waste characterization.
- 5. The creation of a new SET profile document which includes a section that identifies the analytical report numbers associated with the waste stream to alert the generator and the Approval Coordinator.

SET Environmental, Inc. Incident No. 2019-1327

### List of Attachments

Attachment A	Pace Project No. 40170981 Analytical Results
Attachment B	Pace Project No. 40173016 Analytical Results
Attachment C	SET Profile Number 134458
Attachment D	Uniform Hazardous Waste Number 017176269 JJK
Attachment E	Uniform Hazardous Waste Number 019420893 JJK

SET Environmental, Inc. Incident No. 2019-1327



July 29, 2019

Texas Commission on Environmental Quality Industrial and Hazardous Waste Permits Section, MC130 Waste Permits Division P.O. Box 13087 Austin, Texas 78711-3087 Attn: Mr. Michael Pimentel

Re: Improper Disposal of PCB Contaminated Waste Industrial and Solid Waste Registration No. 50267 Hazardous Waste Permit No. 50267 EPA ID No. TXD055135388 CN600360200; RN100607126

Dear Mr. Pimentel,

On September 28, 2018, the SET Environmental Houston facility forwarded, what was believed to be, one 55-gallon drum of non-hazardous waste to US Ecology in Robstown Texas. The SET Houston facility was subsequently notified that the drum apparently contained 116 ppm PCBs.

The SET Environmental Houston facility was notified of this incident in writing today. The notification that includes detailed investigation findings and corrective actions is attached.

In summary, documents submitted to the SET Houston facility before the waste was received indicated that the waste was not TSCA regulated. The waste profile specified that waste contained less than 50 ppm PCB (Attachment C of Incident Investigation) and the analysis submitted with the waste profile indicated that PCBs were below laboratory detection limits (Attachment B of Incident Investigation).

The investigation determined that the PCB analysis reported in ug/kg were incorrectly converted to ppm and the wrong analysis was submitted with the waste profile to the SET Houston facility.

The investigation report was sent to US Ecology and the generator of the waste today. US Ecology intends to notify the TCEQ and the generator stated that they intend on notifying the USEPA.

If you have any questions regarding this incident, please feel free to contact me at your convenience <u>ddidier@setenv.com</u>.

Sincerely.

Daniel A. Didier, CHMM Compliance Director SET Environmental, Inc

cc: Ms. Nicole Bealle, Program Manager, Industrial and Hazardous Waste, TCEQ - Region 12

## Integrity • Innovation • Excellence

5738 Cheswood Street · Houston, Texas 77087 · (713) 645-8710 (800) 598-7328 · FAX (713) 649-1027 Visit our website @ www.setenv.com



July 29, 2019

Texas Natural Resource Conservation Commission, Region 12 Industrial and Hazardous Waste 5425 Polk Avenue, Suite H Houston, Texas 77023-1486 Attn: Ms. Nicole Bealle

Re: Improper Disposal of PCB Contaminated Waste Industrial and Solid Waste Registration No. 50267 Hazardous Waste Permit No. 50267 EPA ID No. TXD055135388 CN600360200; RN100607126

Dear Nicole,

Please see attached notification to our Permit Writer in Austin regarding the improper disposal of TSCA regulated PCB waste at US Ecology in Robstown, TX.

On September 28, 2018, the SET Environmental Houston facility forwarded, what was believed to be, one 55-gallon drum of non-hazardous waste to US Ecology in Robstown Texas. The SET Houston facility was subsequently notified that the drum apparently contained 116 ppm PCBs.

In summary, documents submitted to the SET Houston facility before the waste was received indicated that the waste was not TSCA regulated. The waste profile specified that waste contained less than 50 ppm PCB (Attachment C of Incident Investigation) and the analysis submitted with the waste profile indicated that PCBs were below laboratory detection limits (Attachment B of Incident Investigation).

The investigation determined that the PCB analysis reported in ug/kg were incorrectly converted to ppm and the wrong analysis was submitted with the waste profile to the SET Houston facility.

If you have any questions regarding this incident, please feel free to contact me at your convenience <u>ddidier@setenv.com</u>.

Sincerely, uel A. Didier, CHMM

Compliance Director

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# SET Environmental, Inc.

# **Root Cause Analysis Report**

Incident Number:	2019-1327					
Date of Incident:	September 28, 2018					
Description:	A 55-gallon drum of waste liquids containing 116 ppm PCB-1254 was incorrectly transported to and disposed at the US Ecology Texas Landfill, Robstown, TX as non-TSCA regulated waste.					
Prepared by:	Stevan Pavlovich, CSP, CHMM Director, HSE					
Approved by:	Joel Tameling, President					
Date Approved:	July 29, 2019					
Investigation Partici	pants: Stevan Pavlovich, Kevin Kiefer, Nate Bartley					

## **Executive Summary:**

On Friday, September 28, 2018, a 55-gallon drum containing 226 kilograms of PCBcontaminated liquids was incorrectly transported from the SET Environmental, Inc. treatment, storage and disposal facility in Houston TX (SET TSDF) to the US Ecology hazardous waste landfill in Robstown TX as non-regulated waste where the waste was treated and disposed.

The drum was originally generated by the North Shore Gas Company, Libertyville, IL and SET Environmental, Inc. (SET) was contracted to transport and dispose of the waste. A sample was taken from the drum on June 6, 2018 and analysis of the sample completed on June 21, 2018. The analytical results report the sample as containing 116000  $\mu$ g/kg (116 ppm) of PCB-1254 (Arochlor 1254).

An error was made by an SET Account Manager in converting the units from  $\mu$ g/kg, as reported on the analytical report, to ppm. This error contributed to an incorrect waste determination being made and this documented on the waste profile which describes the waste as containing < 50 ppm PCB. An additional error was made by an SET customer services representative who mistakenly attached the analytical results associated with another waste container at the same site which contained no detectable concentration of PCBs.

The waste profile and incorrect analytical report were submitted to the SET TSDF Approvals Coordinator who approved the waste for acceptance at the SET TSDF. The waste drum was transported to the SET TSDF and received on 8/22/18. The drum was then stored at the SET TSDF until 9/27/18 when it was shipped to the US Ecology landfill for disposal.

On June 11, 2019, during review of the Annual PCB Summary Report for North Shore Gas Company, an SET program manager recognized that this report included an entry for waste shipped to the SET TSDF on 8/17/18. Follow up investigation after this review ultimately led to the discovery that one drum containing 116 ppm PCBs had been shipped to the Houston TSDF.

# **Detailed Description and Timeline of Events:**

On June 1, 2018, SET received a request from WEC Energy Group (WEC), to collect samples for the purpose of disposing of several 55-gallon drums of waste located at North Shore Gas Company, 2101 W. Peterson Road, Libertyville, IL 60048.

North Shore Gas is a subsidiary of WEC which delivers natural gas to customers in Chicago's northern suburbs. Regulated levels of PCB contamination have previously been detected in the North Shore Gas (NSG) distribution system. The source of the PCB contamination is believed to be from PCB-containing lubricants that were used at one time in the propane injection system air compressors at the Peterson Road facility. This equipment was removed from the facility in 2017 during remediation and decommissioning of the affected engines. It is believed that the remaining source of PCB's at this facility, that were detected during analysis of waste drums, is associated with residual amounts present in piping or other similar equipment. There are no other known sources as defined in the EPA PCB regulations (e.g. scrubbers or filter separators that would accumulate PCB liquid) installed in the North Shore Gas distribution system.

On June 6, 2018, an SET Account Manager travelled to the site and sampled three, 55-gallon drums containing liquids. The drums were assigned and marked with the numbers 1, 2 and 3, respectfully. Both drum number 1 and drum number 2 had been previously labeled by the generator with a "Used Oil" and "Nonhazardous Waste" label. Drum Number 3 had been previously marked and labeled by the generator as containing "Antifreeze and Glycol" and a "Universal Waste" label was affixed to the drum.

A chain of custody form was created by the SET Account Manager and sample numbers were assigned on the chain of custody form as: "NSG Peterson Rd #1", "NSG Peterson Rd #2, and "NSG Peterson Rd #3" to correspond with the three drums (1, 2, and 3). The chain of custody and the three samples were then shipped to Pace Analytical Services, LLC (Pace) in Minneapolis, MN for analysis for PCB Oil.

The samples were received by Pace on 6/16/18 and analysis of the samples was completed on 6/21/18. The sample results, recorded on the "Pace Project No. 40170981" report (*Attachment* 

A.), were provided to a WEC Senior Environmental Consultant (representative) and the SET Account Manager on 6/25/18.

Analytical results recorded on this report specify that:

Sample "NSG Peterson Rd #2" contains 10700 µg/kg of PCB-1254 (Arochlor 1254),

Sample "NSG Peterson Rd #3" contains 116000 µg/kg of PCB-1254 (Arochlor 1254) and,

Sample "NSG Peterson Rd #1" contains no PCB's at the limit of detection.

The WEC representative submitted an email to the SET Account Representative the same day indicating that 2 of the three drums contained greater than 10 ppm PCB's.

The SET Account Manager reviewed the analytical report and correctly converted the results for sample "NSG Peterson Rd #2" from 10700  $\mu$ g/kg to 10.7 ppm. However, he incorrectly converted the results of sample NSG Peterson Rd #3" from 116000  $\mu$ g/kg to 11.6 ppm. On 6/27/18 the Account Manager forwarded an email to his designated SET customer services representative (CSR) with a summary of the results for all three drums including the notation "Sample 3 55-gallon drum of used antifreeze – PCB at 11.6 ppm."

On 7/19/18, the same SET Account Manager returned to the North Shore Gas Site in Libertyville, IL to collect an additional sample from one, 55-gallon drum containing used oil. The Account Manager assigned and marked this container as # 5 and a corresponding sample Identification number was assigned and recorded on the chain of custody as "Peterson Rd Oil #5." This sample was delivered to the same Pace laboratory to test for the presence of PCB oils and the results documented on the "Pace Project No. 40173016" report (*Attachment B*).

This report, which specified that no PCB's were present at the detection limit, was provided by Pace to a WEC representative on 7/30/18 and then forwarded to the SET CSR on 7/31/18.

On 8/01/18 the SET CSR submitted a request to the SET Profile Coordinator to determine if the SET TSDF, located in Houston, TX (USEPA ID number TXD055135388) could accept "low level PCB's in oily water and antifreeze." The email request included the description that Sample 2 represented a 55-gallon drum containing oily water containing PCB's at 10.7 ppm and that Sample 3 represented a 55-gallon drum of used antifreeze containing PCB's at 11.6 ppm. A copy of the "Pace Project No. 40170981" analytical report was also submitted to the profile coordinator. After requesting additional information regarding the process generating the waste and verification that the PCB's were not from a TSCA source, the SET Profile Coordinator created SET Profile number 134458 (*Attachment C*) on 8/7/18 to request acceptance of the two waste drums at the SET TSDF. The SET profile describes the waste name as "Oily water /

Antifreeze, non-TSCA PCB" and, in the Waste Composition section of the profile, lists PCB concentration at < 50 ppm.

On 8/20/18, the SET CSR submitted SET Profile 134458 to the WEC representative for signature. However, the CSR mistakenly attached the "Pace Project No. 40173016" laboratory report that listed the results for the "Peterson Rd Oil #5" sample that was obtained from Drum #5. The signed profile and incorrect analytical report were then submitted by the SET CSR to the SET TSDF Approvals Coordinator who approved the waste for acceptance at the SET Houston TSDF.

The waste drums were removed by an SET Chicago division driver on 8/17/18 and transported to the SET Houston TSDF where they were accepted on 8/22/18. Uniform Hazardous Waste Manifest number 017176269 JJK (*Attachment D*) was used as the tracking and shipping document for the waste shipment.

The drums were stored at the SET Houston TSDF until 9/28/18 on which date they were transported to US Ecology Landfill for disposal. Uniform Hazardous Waste Manifest number 019420893 JJK (*Attachment E*) was used as the tracking and shipping document for the waste shipment from the SET Houston TSDF to the US Ecology Landfill for disposal.

On June 11, 2019, during review of the Annual PCB Report Summary prepared for North Shore Gas Company, an SET Program Manager discovered this report included an entry for waste shipped to the SET TSDF on 8/17/18. The annual summary had been generated by SET to assist North Shore Gas (WEC) in meeting its annual recordkeeping and reporting requirements as specified in 40 CFR 761.180, Subpart J.

Follow up investigation from this review ultimately led to the discovery that one of the drums shipped to the Houston TSDF contained 116 ppm PCB's and that the total weight of material shipped in the drums was 226 kg.

Following this discovery, notification was made to officials at the Houston TSDF, US Ecology and to WEC Energy Group on July 18, 2019.

# **Causal Analysis:**

# Direct Causes

 Human performance errors by SET Account Manager and Profile Coordinator in evaluating analytical results and correctly converting units from μg/kg to ppm. In reviewing the analytical results provided on the "Pace Project No. 40170981" report, the SET Account Manager, mistakenly converted the units for sample "NSG Peterson Rd #3" from 116000 μg/kg of PCB-1254 to 11.6 ppm. The Account Manager correctly converted the results reported for "NSG Peterson Rd #2" sample from 10700  $\mu$ g/kg of PCB-1254 to 10.7 PPM.

When questioned, the Account Manager stated he understands how to convert units between  $\mu$ g/kg and ppm and was able to demonstrate the correct conversion of units.

The Account Manager distributed an email to the SET CSR stating the results for "Sample 3" as 11.6 ppm PCB's which was then communicated to the SET Profile Coordinator. The Profile Coordinator is responsible for characterizing wastes in accordance with applicable regulations and completing waste profiles for disposal facilities on behalf of SET clients. Although, the Profile Coordinator had the correct analytical report, she failed to recognize that the results for sample number "NSG Peterson Rd #3", reported at 116000  $\mu$ g/kg of PCB-1254, would, after conversion of units, indicate a concentration of 116 ppm and not 11.6 ppm as stated on the email received from the SET CSR.

The Approvals Coordinator has extensive knowledge and experience in reviewing analytical reports and characterizing wastes on behalf of SET clients. It appears this human performance error was not due to a lack of knowledge.

# 2. <u>Human performance error by SET Customer Service Representative when attaching the</u> <u>incorrect analytical report.</u>

After receiving the completed SET profile 134458 from the SET Approvals Coordinator, the SET Customer Services Representative mistakenly submitted an incorrect analytical report (Pace Project 40173016), in association with the waste profile, to the WEC representative for signature. Additionally, both the signed profile and incorrect analysis was submitted to the SET TSDF Approvals Coordinator. As a result, the Approvals Coordinator received a profile that incorrectly listed the waste name as "Oily water / Antifreeze, non-TSCA PCB" and listed the PCB concentration of the waste at < 50 ppm as well as an analytical report that specified no detectable levels of PCB's.

Based on the information listed on the profile and analytical report, the waste was approved for acceptance at the SET TSDF as a non-TSCA regulated waste.

# Contributing Factors

- <u>Characterizing waste for regulatory requirements required conversion of units</u> While regulatory requirements for disposal of PCB's are expressed in parts per million (ppm), the analytical report expressed the results of the PCB analysis in micrograms per kilogram (µg/kg). This required a conversion of units to milligrams per kilogram (mg/kg) which is equal to ppm. If the analytical report had expressed the PCB concentrations in ppm, conversion of units would not have been required and the likelihood of errors in classifying the waste for disposal would have been significantly reduced.
- <u>Communication of incorrect results by Account Manager and CSR</u> The Profile Coordinator assumed that the PCB concentration of 11.6, specified in the email correspondence from the CSR, for "Sample 3" was correct.

# Root Cause

- <u>Inadequate safeguards to correct errors during waste characterization and profiling</u> The current process used by SET to characterize waste streams in accordance with regulatory requirements and complete accurate waste profiles includes provisions to assure quality. Included among these are:
  - Limiting the role of waste characterization and profile creation to qualified individuals dedicated to this task and;
  - In the case of waste streams shipped to the SET TSDF, having an Approvals Coordinator, independent of the waste characterization role, who verifies information provided on waste profiles, analytical reports and other sources of information.

In this incident, due to the errors made by the Account Manager, Profile Coordinator and Customer Services Representative, the SET TSDF Approvals Coordinator received an inaccurate waste profile and the wrong analytical report which eliminated the possibility of recognizing the discrepancy which existed between the profile and correct analytical report.

Investigation of this incident discovered some significant findings, related to the waste characterization and profile creation process, which include:

- a. The waste profile does not include a reference to the associated analytical reports. Having a reference on the profile, or associated document, to the analytical report number could provide an additional quality assurance safeguard.
- b. The CSR, after receiving the signed profile, submitted the profile and wrong analysis directly to the Approvals Coordinator. The preferred practice, during SET's waste approval process, is for the signed profile to be submitted back to the Profile Coordinator who then submits the signed profile, analysis and other supporting documentation to the Approvals Coordinator. Had this occurred, it is less likely that the incorrect analysis would have being submitted to the Approvals Coordinator.

# **Corrective Actions:**

SET is currently in the late stages of development of an updated waste tracking management system that will be used in association with SET's TSDF and all third party TSFDs. This upgrade will offer significantly improved quality assurance features and support to personnel tasked with characterization of waste streams and creation of waste profiles, manifests, and labels Preliminary testing of the new software is scheduled to begin in August 2019 and a company-wide roll out is planned for January 1, 2020.

The following are some of the features of the revised program to help eliminate errors during characterization of waste streams and creation of profiles:

- 1. Defined user roles are established that limit system access to qualified staff who are authorized to characterize waste and create waste profiles.
- The system will require that results for key analytes (including PCB, RCRA metals, etc.) must be entered into the waste profile section as they appear on the analytical report. Programming will automatically convert units for comparison with regulatory levels.
- 3. An enhanced attachments tab has been developed that allows for multiple documents (analytical results, correspondence, signed documents) to be uploaded for review/approval at the time of profile creation.

- 4. Newly created Analytical tab has been created which will require, for all waste streams, the entry of the laboratory report number, sample ID number and chain of custody number, when an analytical report has been submitted as part of waste characterization.
- 5. The creation of a new SET profile document which includes a section that identifies the analytical report numbers associated with the waste stream to alert the generator and the Approval Coordinator.

# List of Attachments

Attachment A	Pace Project No. 40170981 Analytical Results
Attachment B	Pace Project No. 40173016 Analytical Results
Attachment C	SET Profile Number 134458
Attachment D	Uniform Hazardous Waste Number 017176269 JJK
Attachment E	Uniform Hazardous Waste Number 019420893 JJK

# Attachment A

Pace Project No. 40170981 Analytical Results



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

June 25, 2018

Andi Gregg WEC Energy Group 333 W. Everett St. Milwaukee, WI 53203

RE: Project: WE ENERGIES-NSG PETERSON RD Pace Project No.: 40170981

Dear Andi Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel laurie.woelfel@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Bob Nimmo, SET Environmental





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

#### CERTIFICATIONS

Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

#### **Minnesota Certification IDs**

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485 A2LA Certification #: 2926.01 Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009 Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #:MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064 Maryland Certification #: 322 Massachusetts Certification #: M-MN064

Michigan Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: MN00064 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081 New Jersey Certification #: MN002 New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon NwTPH Certification #: MN300001 Oregon Secondary Certification #: MN200001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382 Wisconsin Certification #: 999407970



## SAMPLE SUMMARY

Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 401709

o.:	40170981	
•		

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170981001	NSG PETERSON RD #1	Non Aqueous	06/06/18 10:00	06/16/18 09:20
40170981002	NSG PETERSON RD #2	Non Aqueous	06/06/18 10:05	06/16/18 09:20
40170981003	NSG PETERSON RD #3	Non Aqueous	06/06/18 10:10	06/16/18 09:20



### SAMPLE ANALYTE COUNT

Project:WE ENERGIES-NSG PETERSON RDPace Project No.:40170981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40170981001	NSG PETERSON RD #1	EPA 8082A	SNG	12	PASI-M
40170981002	NSG PETERSON RD #2	EPA 8082A	SNG	12	PASI-M
40170981003	NSG PETERSON RD #3	EPA 8082A	SNG	12	PASI-M



#### Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

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Sample: NSG PETERSON RD #1	Lab ID: 4	40170981001	Collected	d: 06/06/18	10:00	Received: 06/	16/18 09:20 Ma	atrix: Non Aque Liquid	ous
Results reported on a "wet-weight	" basis								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Oil	Analytical N	Method: EPA 8	082A Prepa	aration Meth	nod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	<1980	ug/kg	6590	1980	1	06/20/18 08:49	06/21/18 09:50	12674-11-2	
PCB-1221 (Aroclor 1221)	<1820	ug/kg	6060	1820	1	06/20/18 08:49	06/21/18 09:50	11104-28-2	
PCB-1232 (Aroclor 1232)	<1760	ug/kg	5860	1760	1	06/20/18 08:49	06/21/18 09:50	11141-16-5	
PCB-1242 (Aroclor 1242)	<2030	ug/kg	6760	2030	1	06/20/18 08:49	06/21/18 09:50	53469-21-9	
PCB-1248 (Aroclor 1248)	<2850	ug/kg	9490	2850	1	06/20/18 08:49	06/21/18 09:50	12672-29-6	
PCB-1254 (Aroclor 1254)	<2850	ug/kg	9490	2850	1	06/20/18 08:49	06/21/18 09:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<2120	ug/kg	7060	2120	1	06/20/18 08:49	06/21/18 09:50	11096-82-5	
PCB-1262 (Aroclor 1262)	<2580	ug/kg	8590	2580	1	06/20/18 08:49	06/21/18 09:50	37324-23-5	
PCB-1268 (Aroclor 1268)	<1960	ug/kg	6530	1960	1	06/20/18 08:49	06/21/18 09:50	11100-14-4	
PCB, Total	<1760	ug/kg	5860	1760	1	06/20/18 08:49	06/21/18 09:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%.	75-127		1	06/20/18 08:49	06/21/18 09:50	877-09-8	
Decachlorobiphenyl (S)	86	%.	75-134		1	06/20/18 08:49	06/21/18 09:50	2051-24-3	



#### Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

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Sample: NSG PETERSON RD #2	Lab ID:	40170981002	Collected	d: 06/06/18	10:05	Received: 06/	16/18 09:20 Ma	atrix: Non Aque Liquid	ous
Results reported on a "wet-weight	" basis								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Oil	Analytical	Method: EPA 8	082A Prep	aration Meth	nod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	<1980	ug/kg	6590	1980	1	06/20/18 08:49	06/21/18 11:22	12674-11-2	
PCB-1221 (Aroclor 1221)	<1820	ug/kg	6060	1820	1	06/20/18 08:49	06/21/18 11:22	11104-28-2	
PCB-1232 (Aroclor 1232)	<1760	ug/kg	5860	1760	1	06/20/18 08:49	06/21/18 11:22	11141-16-5	
PCB-1242 (Aroclor 1242)	<2030	ug/kg	6760	2030	1	06/20/18 08:49	06/21/18 11:22	53469-21-9	
PCB-1248 (Aroclor 1248)	<2850	ug/kg	9490	2850	1	06/20/18 08:49	06/21/18 11:22	12672-29-6	
PCB-1254 (Aroclor 1254)	10700	ug/kg	9490	2850	1	06/20/18 08:49	06/21/18 11:22	11097-69-1	
PCB-1260 (Aroclor 1260)	<2120	ug/kg	7060	2120	1	06/20/18 08:49	06/21/18 11:22	11096-82-5	
PCB-1262 (Aroclor 1262)	<2580	ug/kg	8590	2580	1	06/20/18 08:49	06/21/18 11:22	37324-23-5	
PCB-1268 (Aroclor 1268)	<1960	ug/kg	6530	1960	1	06/20/18 08:49	06/21/18 11:22	11100-14-4	
PCB, Total	10700	ug/kg	5860	1760	1	06/20/18 08:49	06/21/18 11:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%.	75-127		1	06/20/18 08:49	06/21/18 11:22	877-09-8	
Decachlorobiphenyl (S)	79	%.	75-134		1	06/20/18 08:49	06/21/18 11:22	2051-24-3	



#### Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

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Sample: NSG PETERSON RD #3	Lab ID:	40170981003	Collected	d: 06/06/18	10:10	Received: 06/	16/18 09:20 Ma	atrix: Non Aqu Liquid	eous
Results reported on a "wet-weight	" basis								
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Oil	Analytical	Method: EPA 8	082A Prepa	aration Meth	nod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	<9900	ug/kg	33000	9900	5	06/20/18 08:49	06/21/18 11:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<9100	ug/kg	30300	9100	5	06/20/18 08:49	06/21/18 11:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<8800	ug/kg	29300	8800	5	06/20/18 08:49	06/21/18 11:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<10200	ug/kg	33800	10200	5	06/20/18 08:49	06/21/18 11:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<14200	ug/kg	47500	14200	5	06/20/18 08:49	06/21/18 11:52	12672-29-6	
PCB-1254 (Aroclor 1254)	116000	ug/kg	47500	14200	5	06/20/18 08:49	06/21/18 11:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<10600	ug/kg	35300	10600	5	06/20/18 08:49	06/21/18 11:52	11096-82-5	
PCB-1262 (Aroclor 1262)	<12900	ug/kg	43000	12900	5	06/20/18 08:49	06/21/18 11:52	37324-23-5	
PCB-1268 (Aroclor 1268)	<9800	ug/kg	32600	9800	5	06/20/18 08:49	06/21/18 11:52	11100-14-4	
PCB, Total	116000	ug/kg	29300	8800	5	06/20/18 08:49	06/21/18 11:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%.	75-127		5	06/20/18 08:49	06/21/18 11:52	877-09-8	D3
Decachlorobiphenyl (S)	87	%.	75-134		5	06/20/18 08:49	06/21/18 11:52	2051-24-3	



## **QUALITY CONTROL DATA**

EPA 8082A

8082A GCS PCB Oil

Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

QC Batch: 545787 Analysis Method:

QC Batch Method: EPA 3580 40170981001, 40170981002, 40170981003 Associated Lab Samples:

ETHOD BLANK: 2967645		Matrix:	iquid		
sociated Lab Samples: 40170	981001, 40170981002	2, 40170981003			
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
B-1016 (Aroclor 1016)	ug/kg	<1980	6590	06/21/18 08:49	
B-1221 (Aroclor 1221)	ug/kg	<1820	6060	06/21/18 08:49	
B-1232 (Aroclor 1232)	ug/kg	<1760	5860	06/21/18 08:49	
B-1242 (Aroclor 1242)	ug/kg	<2030	6760	06/21/18 08:49	
B-1248 (Aroclor 1248)	ug/kg	<2850	9490	06/21/18 08:49	
B-1254 (Aroclor 1254)	ug/kg	<2850	9490	06/21/18 08:49	
B-1260 (Aroclor 1260)	ug/kg	<2120	7060	06/21/18 08:49	
B-1262 (Aroclor 1262)	ug/kg	<2580	8590	06/21/18 08:49	
B-1268 (Aroclor 1268)	ug/kg	<1960	6530	06/21/18 08:49	
cachlorobiphenyl (S)	%.	96	75-134	06/21/18 08:49	
trachloro-m-xylene (S)	%.	106	75-127	06/21/18 08:49	

Analysis Description:

LABORATORY CONTROL SAMPLE:	2967646					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	100000	92600	93	73-125	
PCB-1260 (Aroclor 1260)	ug/kg	100000	90900	91	75-132	
Decachlorobiphenyl (S)	%.			101	75-134	
Tetrachloro-m-xylene (S)	%.			109	75-127	

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	ATE: 29676	47		2967648							
			MS	MSD								
	4	0170981001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<1980	100000	100000	93100	92700	93	93	48-150	0	30	
PCB-1260 (Aroclor 1260)	ug/kg	<2120	100000	100000	83100	82700	83	83	58-136	0	30	
Decachlorobiphenyl (S)	%.						87	86	75-134			
Tetrachloro-m-xylene (S)	%.						100	100	75-127			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

Project: WE ENERGIES-NSG PETERSON RD

Pace Project No.: 40170981

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:WE ENERGIES-NSG PETERSON RDPace Project No.:40170981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170981001	NSG PETERSON RD #1	EPA 3580	545787	EPA 8082A	545902
40170981002	NSG PETERSON RD #2	EPA 3580	545787	EPA 8082A	545902
40170981003	NSG PETERSON RD #3	EPA 3580	545787	EPA 8082A	545902

	SPE		Re	:		<u> </u>	₹, 	L		Sa						······		45	
Turnaround Time: Rush (circle one) 1 2 or 3 day TAT Routine (5-10 days)	SPECIAL INSTRUCTIONS:	Y. Wardy	Relinquished Rv.				NSG Rederen Kd * 3 6/6/12	NSG Atream ill "I g/g/13	44 dagen	Sample I.D. / Drum Numbers		Sampler: Check N.m.m.	Contact: Andi Opena	Client Proj #:	#: Fc	Milunte 1.K .C.	WE Energies -	450 Sumac Road, Wheeling, IL 60090	SET En
SET Contact:	Q :2	6-15-00							#1 4/4 b		-		All Party and a second seco			5(22)3 .4	NSO LAR	Ph: 847-5;	Environmental,
hech	8	C C					ß	σ	5	Sample Type						V	La Peterson Ca	Ph: 847-537-9221 * Fax: 847-537-9265	nme
N, pr mu	Received		<b>7</b>				1/1	100	lant	Size	2.		<b>ເ</b>	' • •	ι ι ω		5	ix: 847-537-	nta
	Briller .	U BY	2 7 	••••			61	G /	6 /	Container Type No.	2. H2SO4	1. None	G-Glass	Container Type:	3. Soil	1. Waste Water 2. Drinking Water	Sample Type:		, Inc.
Lap:		stic	••••••	•••••••••••••••••••••••••••••••••••••••			r	.   \	······	рн	4. NaOH	3. HN03	8-Tedlar Bag				ë	www.setenv.com	c.
Pa	Date: Time:	Time: Date: Unre:	-				1	······	l	Sampling Temp Date		5. HCI	Ir Bag	-	6. Groundwater	4. Sludge		iv.com	
R	29 1190	6/15	•••••••••••••••••••••••••••••••••••••••				cheliz p	0/1/0	1 1/19				O-Other	) ; ;		7. Groundw			6
	8111	12/2					- UIA	- Sciol	11:00 1	Time Field	8. Other	7. On Ice			Julant	7. Groundwater (filtered)			my
No.		<u> </u>		•	••••			1	·····	Preservation Field Lab						d)			
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D₹																		30	Chain of Custody Record
റ്്		n Maral Barright			$\left  \right $													1	cord

	<b>AG1H</b> 1 lit <b>AG4S</b> 125 <b>AG4U</b> 120	AG1U 1 lit	Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:	020	019	018	017	016	015	014	013	212		210				800		007		302		AG1U		<b>7</b> 2	Client Name:
250 mL clear glass unpres 250 mL amber glass H2SO4 250 mL clear glass unpres	1 liter amber glass HCL 125 mL amber glass H2SO4 120 mL amber glass unnres	1 liter amber glass	s to pr																				-	AG1H	Summer	Lab Lot# of pH paper:	t Na
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upres 12SO/	CL H2SO		sheck:						Γ															AG5U	SS	g pie	
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250 mL plastic unpres 250 mL plastic NaOH 250 mL plastic HNO3 250 mL plastic H2SO4	500 mL plastic HNO3 500 mL plastic NaOH, Znact 500 mL plastic NaOH, Znact	1 liter plastic unpres	ΓΟΧ, <sup>-</sup>																					BP2Z		ecked Lab	ſ
nt pla	n' pla	- plast	TOH,																					BP3U	Plastic	Lot# o	-
stic ur stic Na stic HI stic HJ	stic Hi stic Na	ic und	0&G,																					BP3C	īċ	of pH	
aOH NO3 2SO4	NO3 aOH, J	ores	M D																					BP3N		xed and noted below; Lab Lot# of pH paper;	
	Znact		RO, P																					BP3S		DYes	:
			henol																Ī					DG9A			Pro
VG9D VG9H	DG9T VG9U	DG9A	ics, O																				Γ	DG9T		<b>S</b>	Project #
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	•		in VO																					WGFU	Jars	n (if pl	2
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nL pla : bag	olear j plastic		No																					VOA Vials (	>6mm) *		
120 mL plastic Na Thiosulfate ziploc bag イクこ	4 oz amber jar unpres 4 oz clear jar unpres 4 oz plastic jar unpres																							H2SO4 pH ≤	2		
a Thic	npres npres		*If ye																					NaOH+Zn A	ct pH ≥9	lnitia	
: Na Thiosulfate																								NaOH pH ≥1		Initial when completed:	
a ∑			în he																					HNO3 pH ≤2			
$\sim$			padsp	+															<u> </u>						•		
Ř,		ן ו	ace c																					pH after adju	sted	Date/ Time:	
×			Vials (>6mm) : □Yes □No pw/A *If yes look in headspace column	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	5	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	10000	2.5 / 5 / 10	(mL)			ge 12
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F-GB-C-046-Rev.02 (29Mar2018) Sample Preservation Receipt Form

Pace Analytical		ument Name: ion Upon Receipt (SCUR)	Document Revised: 25Apr201	18
	Do	cument No.:	Issuing Authority:	-
1241 Bellevue Street, Green Bay, WI 5430	2 <b>F-G</b> E	3-C-031-Rev.07	Pace Green Bay Quality Offic	е
	Condition Up	on Receipt Form (S Project #:	CUR)	
Client Name: We energy			)#:40170981	
Courier: ICCS Logistics Fed Ex Speed			-π·4ω1/0981	
Client Pace Other:		Valleo		
Tracking #:	0	4017	70981	
Custody Seal on Cooler/Box Present: 🦵 yes	no Seals intac	t: yes r no	an hann anny i shar anny jillicha a ann ann ann ann ann ann ann ann an a	1979 and down water of the second second second
Custody Seal on Samples Present: 🔽 yes 📈	no Seals intac	at⊸E ves E no		
Packing Material: T Bubble Wrap V Bubb	ble Bags	ne 🗂 Other/		
Thermometer Used <u>SR - 76</u>	Type of Ice. We	Blue Dry None	Samples on ice, cooling process has l	begun
Cooler Temperature Uncorr: 2. S/Corr:	)			
Temp Blank Present: yes no Temp should be above freezing to 6°C.	Biological	Tissue is Frozen: 🎼 yes	7	ontents:
Biota Samples may be received at $\leq 0^{\circ}$ C.	/		Date: <u>6 / / 6</u> Initials:	
Chain of Custody Present:		1.		$\overline{\mathcal{H}}$
Chain of Custody Filled Out:		2.		<u> </u>
Chain of Custody Reling <del>uished</del> :				
Sampler Name & Signature on COC:	DYes DNO DN/A			
Samples Arrived within Herd Time:	Yes No	5.		
- VOA Samples frozen upon receipt	□Yes □No_	Date/Time:		
Short Hold Time Analysis (<72hr):		6.		
Rush Turn Around Time Requested:		7.		
Sufficient Volume:		8.		
For Analysis: ⊡res □no MS/MSD:				
Correct Containers Used:		9.		
-Pace Containers Used:		5.		
-Pace IR Containers Used:				
Containers Intact:		10.		
Filtered volume received for Dissolved tests		1		
Sample Labels match COC:		12. No collect the	s chillies	-AA-
-Includes date/time/ID/Analysis Matrix:	LINA	12	- 0/16/18	U
rip Blank Present:		12	0	۲
rip Blank Custody Seals Present	/	<i>и</i> о,		
Pace Trip Blank Lot # (if purchased):	∐Yes ∐No ☑ ¶/A			
lient Notification/ Resolution:		I If checked	see attached form for additional comm	
Person Contacted: Comments/ Resolution:	Date/1	lime:		
Samples Will be p	hund 1	from and	+ forter +	111
	lier In	ind pro en	er trige lo	116
				H
				14
Project Manager Review:			Date: Colistic	

Page Page 13 of 13

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# Attachment B

Pace Project No. 40173016 Analytical Results



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

July 30, 2018

Andi Gregg WEC Energy Group 333 W. Everett St. Milwaukee, WI 53203

RE: Project: PETERSON RD Pace Project No.: 40173016

Dear Andi Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel laurie.woelfel@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Bob Nimmo, SET Environmental





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

#### CERTIFICATIONS

Project: PETERSON RD Pace Project No.: 40173016

#### **Minnesota Certification IDs**

1700 Elm Street SE, Minneapolis, MN 55414-2485 A2LA Certification #: 2926.01 Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009 Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064 Marvland Certification #: 322 Massachusetts Certification #: M-MN064 Michigan Certification #: 9909

Minnesota Certification #: 027-053-137 Minnesota Dept of Ag Certifcation #: via MN 027-053-137 Minnesota Petrofund Certification #: 1240 Mississippi Certification #: MN00064 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081 New Jersey Certification #: MN002 New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon NwTPH Certification #: MN300001 Oregon Secondary Certification #: MN200001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382 Wisconsin Certification #: 999407970 Wyoming UST Certification #: via A2LA 2926.01



## SAMPLE SUMMARY

Project: PETERSON RD Pace Project No.: 40173016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40173016001		Non Aqueous	07/19/18 10:00	07/25/18 09:50



# SAMPLE ANALYTE COUNT

Project: PETERSON RD Pace Project No.: 40173016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40173016001	PETERSON RD OIL #5 7/19/18	EPA 8082A	RAG	12	PASI-M



Project: PETERSON RD

Pace Project No.: 40173016

Sample: PETERSON RD OIL #5 7/19/18	Lab ID:	40173016001	Collected	: 07/19/18	8 10:00	Received: 07/	25/18 09:50 Ma	atrix: Non Aque Liquid	eous
Results reported on a "dry weight	" basis and are	adjusted for	percent mo	isture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Oil	Analytical	Method: EPA 8	082A Prepa	ration Met	nod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	<1980	ug/kg	6590	1980	1	07/27/18 10:19	07/27/18 17:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<1820	ug/kg	6060	1820	1	07/27/18 10:19	07/27/18 17:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<1760	ug/kg	5860	1760	1	07/27/18 10:19	07/27/18 17:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<2030	ug/kg	6760	2030	1	07/27/18 10:19	07/27/18 17:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<2850	ug/kg	9490	2850	1	07/27/18 10:19	07/27/18 17:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<2850	ug/kg	9490	2850	1	07/27/18 10:19	07/27/18 17:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<2120	ug/kg	7060	2120	1	07/27/18 10:19	07/27/18 17:56	11096-82-5	
PCB-1262 (Aroclor 1262)	<2580	ug/kg	8590	2580	1	07/27/18 10:19	07/27/18 17:56	37324-23-5	
PCB-1268 (Aroclor 1268)	<1960	ug/kg	6530	1960	1	07/27/18 10:19	07/27/18 17:56	11100-14-4	
PCB, Total	<1760	ug/kg	5860	1760	1	07/27/18 10:19	07/27/18 17:56	1336-36-3	
Surrogates		2 0							
Tetrachloro-m-xylene (S)	91	%.	75-127		1	07/27/18 10:19	07/27/18 17:56	877-09-8	
Decachlorobiphenyl (S)	82	%.	75-134		1	07/27/18 10:19	07/27/18 17:56	2051-24-3	



### **QUALITY CONTROL DATA**

Project: PETERSON RD

Pace Project No.: 40173016

QC Batch:	553109		Analysis Meth	hod: El	PA 8082A	
QC Batch Method:	EPA 3580		Analysis Des	cription: 80	82A GCS PCB Oil	
Associated Lab Samp	oles: 40173016001					
METHOD BLANK:	3004950		Matrix:	Non Aqueous L	_iquid	
Associated Lab Samp	oles: 40173016001					
			Blank	Reporting		
Parame	eter	Units	Result	Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 10	016)	ug/kg	<1980	6590	07/27/18 16:55	
PCB-1221 (Aroclor 12	221)	ug/kg	<1820	6060	07/27/18 16:55	
PCB-1232 (Aroclor 12	232)	ug/kg	<1760	5860	07/27/18 16:55	
PCB-1242 (Aroclor 12	242)	ug/kg	<2030	6760	07/27/18 16:55	
PCB-1248 (Aroclor 12	248)	ug/kg	<2850	9490	07/27/18 16:55	
PCB-1254 (Aroclor 12	254)	ug/kg	<2850	9490	07/27/18 16:55	

PCB-1248 (Aroclor 1248)	ug/kg	<2850	9490	07/27/18 16:55	
PCB-1254 (Aroclor 1254)	ug/kg	<2850	9490	07/27/18 16:55	
PCB-1260 (Aroclor 1260)	ug/kg	<2120	7060	07/27/18 16:55	
PCB-1262 (Aroclor 1262)	ug/kg	<2580	8590	07/27/18 16:55	
PCB-1268 (Aroclor 1268)	ug/kg	<1960	6530	07/27/18 16:55	
Decachlorobiphenyl (S)	%.	92	75-134	07/27/18 16:55	
Tetrachloro-m-xylene (S)	%.	97	75-127	07/27/18 16:55	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	100000	87000	87	73-125	
PCB-1260 (Aroclor 1260)	ug/kg	100000	84300	84	75-132	
Decachlorobiphenyl (S)	%.			97	75-134	
Tetrachloro-m-xylene (S)	%.			102	75-127	

MATRIX SPIKE & MATRIX SP		ATE: 30049	52		3004953							
			MS	MSD					_			
	4	0173016001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<1980	100000	100000	97600	97200	98	97	48-150	0	30	
PCB-1260 (Aroclor 1260)	ug/kg	<2120	100000	100000	79000	81500	79	82	58-136	3	30	
Decachlorobiphenyl (S)	%.						81	82	75-134			
Tetrachloro-m-xylene (S)	%.						97	95	75-127			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

## Project: PETERSON RD

Pace Project No.: 40173016

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PETERSON RD Pace Project No.: 40173016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40173016001	PETERSON RD OIL #5 7/19/18	EPA 3580	553109	EPA 8082A	553227

Jacobia       Jacobia       SET Contact:         Image: Contract       Rush (circle one)       SET Contact:         Image: Image: Contract       Image: Contract       SET Contact:         Image: Image: Contract       Image: Contract       SET Contact:         Image: Contract       Image: Contract       SET Contact:         Image: Contract       Image: Contract       SET Contact:         Image: Contract       Image: Contract       Image: Contract         Image: Contract       Image: Contract       Image: Contrat         Image: Contract <th>Relinquished By: Date: 7 /26 DS 1001STUS Time: 09:5 CS 1001STUS</th> <th>Relinquished By: Date: 7 / 24 Time: 17:0</th> <th>Relinquished By: Date: 7 / Zu Time: 12 : 3</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Patrison Rel 31 # 5 7/19/19</th> <th>Sample I.D. / Drum Numbers</th> <th></th> <th>Scillprei, Kuhub Nimmo</th> <th>S</th> <th>Contact: Andi Erregg / Return Nimmo</th> <th>P.O. #: Proj #:</th> <th></th> <th>Milwand, VI 5323</th> <th>S: 333 N. OVICHL - ALS</th> <th>Client: We Filler miles - PCL Optaria</th> <th>450 Sumac Road, Wheeling, IL 60090 Ph: 847-53</th> <th>SET Environmental,</th>	Relinquished By: Date: 7 /26 DS 1001STUS Time: 09:5 CS 1001STUS	Relinquished By: Date: 7 / 24 Time: 17:0	Relinquished By: Date: 7 / Zu Time: 12 : 3						Patrison Rel 31 # 5 7/19/19	Sample I.D. / Drum Numbers		Scillprei, Kuhub Nimmo	S	Contact: Andi Erregg / Return Nimmo	P.O. #: Proj #:		Milwand, VI 5323	S: 333 N. OVICHL - ALS	Client: We Filler miles - PCL Optaria	450 Sumac Road, Wheeling, IL 60090 Ph: 847-53	SET Environmental,
act: Rhud	80118	018	1/2						π	зиттре Туре	Cample			OW					5	Ph: 847-537-9221 * Fax: 847-537-9265	nme
Nam	Rødeive	Received By		-			 	 		Size 1		2 -	Pr	י ק ד		• 	2.		Sc	x: 847-537-9	ntal
			Ved By:			•••••	 		9	Type No.	Contriner	1. None 2. H2SO4	Preservative:	P-Plastic G-Glass	Container Type:	3. Soil	2. Drinking Water	1. Waste Water	Sample Type:		, Inc.
Lap:	Pau	itics	Mer				 		١	pH		3. HN03 4. NaOH		V-VOC Viai B-Tedlar Bag		6. Gr	er 5. Oil	4. Sludge		www.setenv.com	•
Pare	Date: Time:	Date: Time:	Date: Time:				 	 •••••	\	Temp Date						6. Groundwater				.com	
	69:	: 1	7 102 102	••••••			 	 ļ	N BIL			H 7		0-Other	)		8. Other	7. Groundwater (filtered)			02
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Received On Ice Temperature:			/Wast									100		ineg	LLb	2				00	<u>o</u> .
d On I			e Gen									****								COC # :	0
e e			Notes/Waste Generated:				 				Television of	****	CZESCOWANE	and to be the state of the	terjetter tering	unen yn en s	an false to change		≥		0
b			ö					 			903-004-00	*****	aboran (na cose)	92++++2+52+52+54-54-194744	549501202095000	20034546000931			Analyses	33	2 sto
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Rev. May 2007		-																			Rec
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Page	9	of	1	1

AG4U AG5U AG2S BG3U	AG1U AG1H AG4S	Exceptions to preservation check: VOA, Coliform, TOC,	020	019	018	017	016	015	014	013	012	011	010	600	800	007	906	005	004	003	002	001	Pace Lab #		-	Clie		
120 100 500 250		tions																					AG1U		All co	int		
1 liter amber glass 1 liter amber glass HCL 125 mL amber glass H2SO4 120 mL amber glass unpres 100 mL amber glass unpres 500 mL amber glass H2SO4 250 mL clear glass unpres	to pre																					AG1H		ntaine	Client Name:			
nber g nber g nber g ear gla	oer gla oer gla nber g	serva																					AG4S	•	ers ne	ne:		
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ור pla ור pla ור pla ור pla	י plast רו pla רו pla	TOH,																					BP3U	Plastic	ot# of			
250 mL plastic unpres 250 mL plastic NaOH 250 mL plastic HNO3 250 mL plastic H2SO4	1 liter plastic unpres 500 mL plastic HNO3 500 mL plastic NaOH, Znact	TOX, TOH, O&G, WI DRO, Phenolics, Other																					врзс б	n	cked and noted below: Lab Lot# of pH paper:			
npres aOH NO3 2SO4	NO3 aOH,	₹ D																					BP3N		elow: aper:			
	Znact	RO, F																					BP3S		□Yes			
		heno																					DG9A		All containers needing preservation have been checked and noted below: a Yes a No WA			
		lics, O																					DG9T		X	Project #		
VG9H VG9H	DG9A DG9T VG9U	ther		DG9T VG9U ≤ VG9H	<u>&lt;</u>		#																					
40 m 40 m 40 m	40 m	40 m																					VG9H	sle	Std #	19		
40 mL clear vial HCL 40 mL clear vial MeOH 40 mL clear vial DI	40 mL amber ascorbic 40 mL amber Na Thio 40 mL clear vial unpres																						VG9M		Lab Std #ID of preservation (if pH			
ar vial ar vial ar vial	ber Na ber Na	Head																					VG9D		prese	306		
HCL DI	corbio a Thio unpre	Ispace																					JGFU		rvatio	6		
<u>т</u>	S O	e in V																					WGFU	24	n (if pi			
		Headspace in VOA Vials (>6mm) : □Yes □No																	54-500 1999 1999				WPFU		⊣ adju			
z	<u>ج</u> ج ج	als (>(																					SP5T	ล	adjusted):			
SP5T ZPLC GN:	JGFU WGFU WPFU	ŝmm)																					ZPLC	General		•		
	4 oz 4 oz	: ¤Ye																					GN	<u>v</u>				
120 mL plastic ziploc bag	clear plast	S DNo																					VOA Vials (>	6mm) *	1			
120 mL plastic Na Thiosulfate	4 oz amber jar unpres 4 oz clear jar unpres 4 oz plastic jar unpres	X																					H2SO4 pH ≤2	2	1			
Na Th	unpre npres unpre	ŤŤy																					NaOH+Zn Ac		com			
iosulf	<i>й й</i>	es loc																					NaOH pH ≥12		Initial when completed:			
ate		× in																						<u>.</u>				
$\sim$		heads												ļ				<b> </b>		<u> </u>			HNO3 pH ≤2					
		space																					pH after adjus	sted	Date/ Time:			
: Na Thiosulfate	<b>.</b>	N/A *If yes look in headspace column	2.5/	2.5/5,	2.5	2.5	2.5	2.5	2.5	2.5/5/	2.5	2.5	2.5	2.5	2.5/5/	2.5	2.5	2.5	2.5	2.5/5/	2.5/5	2.5	<u> </u>		1	ge 10		
res.		nn	5/	/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5/5/10	2.5/5/10	/5/10	2.5/5/10	2.5 / 5 / 10	2.5/5/10	2.5 / 5 / 10	/5/10	2.5 / 5 / 10	2.5/5/10	2.5/5/10	2.5/5/10	/5/10	/5/10	/5/10	Volume (mL)					
Ø			10	12	9	12	12	6	ō	6	0	6	10	6	0	6	0	6	6	6	0	0			J			

F-GB-C-046-Rev.02 (29Mar2018) Sample Preservation Receipt Form

ŀ

Pace Analytical"	1	nditio	nent Name: n Upon Receipt (SCU	IR)		nt Revised: 2	
1241 Bellevue Street, Green Bay, WI 54302			ument No.: 2-031-Rev.07	ļ		suing Authori een Bay Qual	
Repetition and a contraction of the second secon					201-11-10-		and the second
Sample C	Condition	Upoı	n Receipt Form	(SC	UR)		
Client Name: SET			Project #:	11/	\Щ •	10171	
Courier: CS Logistics   Fed Ex   Speede				M	J# • '	40173	010
Client Pace Other:		# : VV					
Tracking #:			<u>-</u> _	401	/3016		
Custody Seal on Cooler/Box Present: Xyes					an a	······································	
Custody Seal on Samples Present: Packing Material: Bubble Wrap Bubb							
Thermometer Used SR - 5()	-	$\sim$	Blue Dry None	$\overline{\nabla}$	amples or	n ice, cooling pro	cess has begun
Cooler Temperature Uncorr: () /Corr: (	).5	Ċ	blue bly Hone	Ň	ampico or	ribe, booking pro	ocoo nao begun
Temp Blank Present: Wes Ino	Biolog	gical T	issue is Frozen: 🦵	yes	no		mining pontents:
Temp should be above freezing to $6^{\circ}$ C. Biota Samples may be received at $\leq 0^{\circ}$ C.						Date: _/ _/ Initials:	518
Chain of Custody Present:	XYes □No	□n/a	1. DNgINal	$\mathcal{H}$	opy	1	72518 1
Chain of Custody Filled Out:	Xyes 🗆 No	□n/a	2.				
Chain of Custody Relinquished:	XYes □No	□n/a	3.				
Sampler Name & Sgnature on COC:		□n/a	4.				
Samples Arrived within Hold Time:	XYes □No		5.				
- VOA Samples frozen upon receipt	□Yes □No		Date/Time:				
Short Hold Time Analysis (<72hr):			6.				
Rush Turn Around Time Requested:	□Yes ANO		7.				
Sufficient Volume:			8.				
For Analysis: ⋈yes □No MS/MSD:	□Yes XNo	□n/a					
Correct Containers Used:	XYes □No		9.				
-Pace Containers Used:	XYes □No	□n/a					
-Pace IR Containers Used:	□Yes □No						
Containers Intact:	Yes DNo		10.				
Filtered volume received for Dissolved tests	 □Yes □No		11.				
Sample Labels match COC:	□Yes XNo	- <u>f-i</u>	a) lange				
-Includes date/time/ID/Analysis Matrix:	DIC						7125118 17
Trip Blank Present:	□Yes □No		13.				
Trip Blank Custody Seals Present	□Yes □No						
Pace Trip Blank Lot # (if purchased):		I					
Client Notification/ Resolution: Person Contacted:	- An shrink a second	Date/		ecked,	see attach	ned form for addi	tional comments
Comments/Resolution: <u>125118</u> 125118 D	e 1000	<del>UC</del>	d in free	pn	du.	(t fne	19e 125/18 M
Project Manager Review:		ĺ	Jun)		Date:	7/25/1	\$

#### Attachment C

#### SET Profile Number 134458

<b>SET</b> Environment	al, Inc	SE	Γ PROF	ILF	2 134	458		As of 8/	Page 1 of 2 7/2018 12:17:02
SET Num	ber: 134458	Nam	e:Oily wate	r/An	tifreez	ze. non-T	SCA ]	PCB	
Date Approved	1:					Sales Re		b Nimmo	
Contact Id:	Erik Ehrengren						•	nielle We	iss
	(414) 221-4778			DOT	Ship Name	Non-DOT	RCRA	Regulated	
Broker:	SET Env - Whee 450 Sumac Rd Wheeling, IL 60	-		UN/I	JΔ·				
	······				ard Class	:	Р	acking Gro	auc
Qty containers	: 2					Rq:		Q Value:	
Frequency:	Once				FSETE	nvironmenta			
• •	Spent/used Drai	nina of fluids	from generator			B Cheswood	-	louston. T	гх
		cleaning of u				XD055135388		· · · · · · · · · · · · · · · · · · ·	
Name North Shore Gas		000067751 OU		Address Peterson		Shore Gas, Liber <u>% Average</u> 95.0 50.0		60048 T1	Off Site Profile
	1 Oil					5.0	1	5	
	4 PCB <50pp	m				0.0	0	0	
		Characterist	ic Typical Valu	ue	LO Val	HI Val UOM			
		COLOR	Varied						
		LAYER	Homogenous						
		ODOR	Mild						
		PHYST	Liquid			5.0.0/			
		SOLID		0.0	0.0	5.0 %			
		FLASH	-						
		OXIDIZ PH	-	7 0	4.0	10.0 mL			
		SPGRAV		7.0 1.000	4.0 0.900	10.0 pH 1.100			
		SPURAV	I	1.000	0.900	1.100			

# **SET PROFILE 134458**

nvironmental, inc	.010
1. Is the hazardous waste determination based on the generator's detailed knowledge of the waste? [	No
2. Is the hazardous waste determination based on the analysis of the waste? If yes, please attach analysis.	Yes
3. Does this waste meet the definition of debris in 40 CFR 268.2(g)?	No
4. Does this waste meet the definition of Univeral Waste in 40 CFR part 273?	No
5. If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents as defined in 40 CFR 268.2(i)? If yes, identify each constituent and their percentages in Waste Composition.	No
6. Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.65? If yes, list these chemicals, CAS # and their percentages in Waste Composition.	No
7. Does this waste contain any of the EHS identified in section 302 of EPCRA? If yes, list these chemicals, CAS [ # and their percentages in Waste Composition.	No
8. Is this waste regulated under the National Emissions Standard for Benzene Waste Operations (40 CFR Part [ 61 Subpart FF)?	No
9. Does this waste meet the definition of a wastewater (40 CFR 268.2(f))?	No
10. Is this waste being shipped in DOT specification packages authorized for the material they contain?	Yes
11. Is the total organic halogen (TOH) content of this used oil >= 1,000 ppm? If the answer is "Yes", this material will be considered a hazardous waste unless sufficient documentation is provided to rebut the presumption that the used oil is a hazardous waste (see 40 CFR §279.44).	N/A

I hereby certify that the information identified above and attached to this profile is complete and accurate to the best of my knowledge and ability to determine that no omissions of composition or properties exist, and that all known or suspected hazards have been disclosed. I also understand it is my responsibility to properly identify and classify my waste in accordance with USEPA, US DOT and State regulations.

Anndelee Gregg
PRINTED NAME
SIGNATURE

Sr. Environmental Consultant

TITLE

August 20, 2018

DATE

## Attachment D

Uniform Hazardous Waste Number 017176269 JJK

# VII(

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1		IIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	67751	2. Page 1 of 1		rgency Respons			Tracking No.	<sup>umber</sup> 6269	JJK
	5. 0	Generator's Name and Mailin North Shore G					or's Site Address 1 W. Pet		an mailing addre 1.	ess)		
		2101 W. Peter	son Rd. North Shore G	as		Nor	th Shore	Gas				
		Libertyville, IL nerator's Phone: Transporter 1 Company Name		946-6817		LIDE	ertyville, I	L 60048	U.S. EPA ID	Numbor		
	0.1	SET Environme									8195723	36
	7. T	ransporter 2 Company Name							U.S. EPA ID	and statement of the statement of the statement of the		
	8. [	Designated Facility Name and	d Site Address						U.S. EPA ID	Number		
			nvironmental, Inc.									
			heswood				(740) 0	10 0740	T	TXD0!	5513538	8
	9a.	ility's Phone: Housto 9b. U.S. DOT Descriptio	on (including Proper Shipping Name, Haza	ard Class, ID Number,	,		(713) 64 10. Conta	<u>15-8710</u> iners	11. Total	12. Unit	13. Waste	Cadaa
	HN						No.	Туре	Quantity	Wt./Vol.	13. Wasu	
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GENERATOR		2					01	OW	27		00	TS2051
GEN		"Non-Oot	RCRA legulated				OI	16	55	G		
							01	4	55	0	ØJ	12051
		3.										
		4.										
		Special Handling Instructions									ANA	
	1	=134458:Oily water	r/Antifreeze, non-TSCA PCI	B 2=1344	\$8:01	lyn	xter(1	Aufitu	uze, Na	n's		202
			R'S CERTIFICATION: I hereby declare the second									
		marked and labeled/placard	ded, and are in all respects in proper cond ontents of this consignment conform to th	dition for transport acc	cording to applic	able inter	national and nat					
	Gen	I certify that the waste minin erator's/Offeror's Printed/Type	mization statement identified in 40 CFR 2	62.27(a) (if I am a larg	And a state of the second	erator) or nature	(b) (if I am a sma	all quantity gen	erator) is true.		Month	Day Year
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INT'L		nternational Shipments	Import to U.S.	Ĺ	Export from U	.S.	Port of en			)		
	-	sporter signature (for export ransporter Acknowledgment	11				Date leavi	ng U.S.:		-		
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Î		Discrepancy Discrepancy Indication Spac	~				7		<u> </u>	•		
	100.		Quantity	Туре		L	Residue		Partial Reje	ection	L] Fu	II Rejection
∣ ≻	18b	Alternate Facility (or Generat	tor)			Ма	nifest Reference	Number:	U.S. EPA ID N	umber		
CILIT	.00.		,									
D FA		ity's Phone: Signature of Alternate Facility	v (or Congrator)								Month	Day Year
NATE	100.		y (or Generatory									
DESIGNATED FACILITY	19. H	azardous Waste Report Man	nagement Method Codes (i.e., codes for h	hazardous waste treat		and recy	cling systems)		· ·		L	
D -	1.	H141	<sup>2</sup> H141		3.				4.			
			Operator: Certification of receipt of hazar	dous materials covere		and the second se	1					Davis
Ţ	Printe	ed/Typed Name	Ares Solom	9h	Sign:	ature	Inda	~ (A	Ina	0	Month	Day Year
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EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

## Attachment E

Uniform Hazardous Waste Number 019420893 JJK

Ĩľ	JNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Nur	mber TXD05513	15388		332-418-	-363		.941	umber 2089	93 J	JK
5.	Generator's Name and Mailin SET Environm 5738 Cheswoo	g Address ental, Inc. od Street			Genera 57	ator's Site Address ( 43 Cheswo	(if different t od Stro	han mailing addres <b>301</b>	ss)			
	Houston, TX		77087	45-8710	Ho	uston, TX	77087					
	Generator's Phone: Transporter 1 Company Nam	e	110-0	40-07 IV			and the second secon	U.S. EPA ID N	Number	105 - L		
	SET Environm	,								81957	1236	
7.	. Transporter 2 Company Nam	e		Strandense I.	ilis and the	المراجع المراجع		U.S. EPA ID N		en pris i	(	Ale States
8.	. Designated Facility Name and				n finn ei	nalis 4 martine in a second	1.000	U.S. EPA ID N	and the second se	<u>.</u>		
	US Ecc	ology Texas ounty Road							TXDO	69452	2340	
	acility's Phone: Robsto	wn, TX 783	380-0000			(800) 24	2-3209	).				
	9a. 9b. U.S. DOT Descriptio		Shipping Name, Haza	rd Class, ID Number,		10. Contain	and the local division in the second s	11. Total	12. Unit	13.	Waste Code	es
	HM and Packing Group (if a		to polid in a n		2 	No.	Туре	Quantity	Wt./Vol.			1
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	L. L.	om fraenio	a ornemane)			1	DF	190	Р		0510	31.91
	RQ2. UN3219 Wa					and the second				D002	D001	
2	(Sodium Nitr				Nor Carl	7	DF	3064	p		0521	1191
	RQ3 UN3219 Wa	GIII (D001 I aste Nitrites.	inorganic, aqu	eous solution						D002	D001	12.10
	(Sodium Nitr	rite, Potassiu	m Nitrite)				en. en	1000				1 4 54
		GIII (DOOI I		01.14		2	DF	1220	P	, sossiétéres	0521	11.31
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1	Please print or type. UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number (Continuation Sheet) TXD055135388	22. Page 2 of 4	23. Ma	nifest Tracking Nu	mber	893.J.	ed. OMB No	
	24. Generator's Name SET Environmental, Inc. 5738 Cheswood Street Houston, TX 77087-	713-645-	8710			502		
	25. Transporter Company Name		an a state a state	U.S. EPA ID				
	26. Transporter Company Name			U.S. EPA ID	Number			
	27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any))	No.	ainers +	29. Total Quantity	30. Unit Wt./Vol.	31	. Waste Code	iteratorial BS
	RQ 5 UN3266: Waste Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)					D002		
	8 PG:III (D002)	1	DF	360	P		0535	106)
	Hydroxide)					D002		ļ. 
1.	8         PG:III (D002)           X         7 UN3266: Waste Corrosive liquid, basic, inorganic, n.o.s.	1	TP	1660	P	****	0535	1061
1. 1. 1.	(4-(n-ethyl-n-2-methane sulfonyl aminoethyl)-2-methyl phenyl 8 PG:III (D002)	2	DF	321	p	D002	TSDT:	1103
- KO	DOL TRIOGGA ME COLUMN			321		D002	4. 594,981 -	The offer Pull of
ENERALOR	Ammonium Bifluoride) 8 (6.1) PG:II (D002)	4	DF	1884	P		05363	031
S S S S						0002		
	8	-	TR	4277	Respective	far agginer in	rsdr:	031
Sec. 10	10 Non-Regulated Material							
1	X 11 NA2212: Asbestos	1	DF	50	Р	Barry John J	0507:	191
	9 PG:III		maa	004			07000	
	12 Non Regulated Material	3	DM	861	P		05283	ol day
1. 2. 2.		7	DF	322	p		05316	091
	13 Non Regulated Material		Real" L	Within the				
		6	DM	2489	P		05316	091
ſ	14 Non Regulated Material							
		4	TP	8124	P		05316	091
	32. Special Handling Instructions and Additional Information 5=090052566:BASES, UNLISTED [VAT] 6=090052566:BASES, UNLISTED 8=09-008-2167:SST Waste 9=09-008-9710:ACIDS, SULFURIC, CONCENTRAT 11=09-004-0086:ASBESTOS [ASBESTOS] 12=090042153-1:NON-HAZ, LIQ SLUDGES 14=090042153-1:NON-HAZ, LIQUIDS / SLUDGES	[VAT] 7=09 ED 93% 10=	0900490	- JSLOV 91-BASUS, D 25:NON-HAZ =-090042153-	- COM	MPK	[NH PAC QUIDS /	2K]
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	34. Transporter Acknowledgment of Receipt of Materials     Printed/Typed Name     Signature					Mo	nth Day	Yea
	35. Discrepancy							1
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	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and re R121 H121 H121 H1221	cycling systems)	6- H1	Zoffiw		in H	121	10
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24.	Generator's Name SET Environmental, Inc.				- H. ADD VIP (1)		
	5738 Cheswood Street	713-645-8	740		i de la	50267	
	Houston, TX 77087-	110-040-0	0/10	U.S. EPA ID I		30201	
25.	Transporter Company Name			1			
26.	Transporter Company Name			U.S. EPA ID I	Number		
	27h LLS DOT Description finducting Proper Shipping Name Hazard Class ID Number	28+ Conta	iners	<u> </u>		4	
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	No.	Туре	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	5
	15 Not Regulated (MDI)						
		1	DM	68	p	05316	0
	16 Not Regulated (MDI)			74C7447			F
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		1	DF	56	P	05316	05
	17 Non Regulated Solids						
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-	19 Non Regulated Solids						
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	19 Non Regulated Solids	F-1	top7 0181.	00.40		00010	sitte fo
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i wijeko	an a	promision in probability	DF	150	Phanastal	05073	15
	20 Non Regulated Solids						
		2	DF	130	p	05073	15
1.1	21 Non Regulated Solids						
		1	CF	480	0	05073	10
X	22 UN3262: Conosive solid, basic, inorganic, n.o.s. (Sodum	<u> </u>	SI.	400		10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ella ti
	Hydroxide)						
	8 PG:III	4	DF	760	P	05073	15
A	23 UN3262: Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide)						
	8 PG:III	.1	CW	480	P	05073	19
	24 Non Regulated Material						-
		4	DE	497	p	TSDF1	4.0
			DF				919
18=	Decial Handling Instructions and Additional Information 109-004-6978:NON-HAZ, LIQUIDS, MDI 16=09-004-6978:NON-HAZ, LIQU 2090050175-1:NON-HAZ, SOLIDS [COS] 19=090050175-1:NON-HAZ, SO 2090050175-1:NON-HAZ, SOLIDS [COS] 22=090050175-1:NON-HAZ, SO 2090042153-1:N/S: NON-HAZ, LIQUIDS / SLUDGES	DLIDS [Co	OS] 20=09	0050175-1:	NON-HA	Z, SOLIDS (C	
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36. H	H200 [1] H200 H10 H132	I	<b>H1</b> :	32		H132	

	UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	22. Page	23. Mani	LU fest Tracking Nur	nber			
	(Continuation Sheet) TXD055135388	4 of 4		01	9420	893.1.1	K	
	24. Generator's Name SET Environmental, Inc. 5738 Cheswood Street Houston, TX 77087-	713-645-6	3740			5026	27	
	25. Transporter Company Name	110-040-0	57.10	U.S. EPA ID I	Number		<u>.</u>	
	26. Transporter Company Name			U.S. EPA ID N	Number		provident second providence of the second	
	27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, And Strand		iners	4 29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	\$
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î		ORM HAZARDOUS STE MANIFEST	1. Generator ID Number TXD069452340		2. Page 1 of 1		ncy Response 10) 839-3		4. Manifest		<u>579</u>	<u> 3 JJ</u>	K
		erator's Name and Mailir				Generator's	Site Address	(if different t	han mailing addres	ss)			
		COUNTY ROAD											
	ROB	STOWN ator's Phone: (361) 38	7-3518	TX 7838	ю I								
	6. Tran	sporter 1 Company Nam	1e						U.S. EPA ID N				
		ION RESOUP									0000723	\$7	
11	7. Tran	sporter 2 Company Nam	ne			,			U.S. EPAID N	umber			
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		/s Phone: (409) 735-	2021 on (including Proper Shipping Na	mo Hazard Class ID Number			10. Contair	1015	11. Total	12. Unit			
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	<u> </u>	FNFRATOR'S/OFFERO	R'S CERTIFICATION:   hereby	declare that the contents of thi	is consignment a	are fully and	accurately de:	scribed abov	ve by the proper sh	hipping name	, and are class	sified, packa	ged,
	E	Exporter. I certify that the	rded, and are in all respects in pi contents of this consignment con	form to the terms of the attach	ed EPA Acknow	ledgment of	Consent.			. If export shi	pment and I a	m the Prima	ry
		certify that the waste min ator's/Offeror's Printed/Ty	imization statement identified in	40 CFR 262.27(a) (if I am a lar		nerator) or (a	) (if I am a sma	all quantity g	enerator) is true.		Mont	h Day	Year
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NOIS	19. Ha	zardous Waste Report M	lanagement Method Codes (i.e.,	codes for hazardous waste tre	atment, disposa	al, and recyc	ling systems)						
ŭ	1.	LOUM	2.		3.		**;		4.	_	·		
	20 0	TUYU signated Facility Owner	or Operator: Certification of recei	pt of hazardous materials cove	ered by the mani	ifest except	as noted in Iten	n 18a	L				
		d/Typed Name				inature	Ν. (	<u>\</u> .		-	Mon		Year
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Î	UNIFORM HAZARDOUS TXD089452340		rgency Response 800) 839-		4. Manifest T	115	<sup>ber</sup> 800	J	JK
	5. Generator's Name and Mailing Address US ECOLOGY TEXAS, INC	Generat	or's Site Address	(if different th	an mailing address	s)			
	3277 COUNTY ROAD 69								
	ROBSTOWN Generator's Phone: (361) 387-3518	30 I							
	6. Transporter 1 Company Name				U.S. EPA ID N				
11	ACTION RESOURCES INC					ALROO	0007237	7	
	7. Transporter 2 Company Name				U.S. EPA ID N	umber			
	8. Designated Facility Name and Site Address				U.S. EPA ID N	umber			
	HWY 73, 3.5 MILES WEST OF TAYLOR BAYOU PORT ARTHUR Facility's Phone: (409) 735-2821		TX 7764	40	I	TXD00	0838896	3	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. Contair	ners	11. Total	12. Unit			
	HM and Packing Grouff (2)) 9-23-19		No.	Туре	Quantity	Wt./Vol.	13. Wa	ste Codes	5
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6									
	3.								
	4.								
	14. Special Handling Instructions and Additional Information OF4897 1:565912 BOX#RT4187			~					
		TIL	giler	R	74/ SEP	67	·		
	00SD 6-1-18		•		SEP	23,13	8:47		
	<ol> <li>GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of thi marked and labeled/placarded, and are in all respects in proper condition for transport acc</li> </ol>								• •
	Exporter, I certify that the contents of this consignment conform to the terms of the attached	ed EPA Acknowledgment	of Consent.	•	-	in export shipir	ent anu r an	uie riune	u y
	Lertify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a lan Generator's/Offeror's Printed/Typed Name	ge quantity generator) or Signature	(b) (hr am a sma	Il quantity ge	nerator) is true.		Month	Day	Year
	Qiana Myles	(	$\mathcal{V}_{-}$	- L			09	13	19
Ļ	16. International Shipments	Export from U.S.	Port of en	trv/exit:				<b>_</b>	
INT'	Transporter signature (for exports only):		Date leavi						
E	17. Transporter Acknowledgment of Regeipt of Materials Transporter Printed/Typed Name	Signature	/	1	<u>A</u>	<u> </u>	Month	Day	Year
TRANSPORTER	Jore / Nacinnero	l		~ 2	n/N	<b>^</b>	19		ิต/้วี
INSI	Transporter 2 Printed/Typed Name	Signature	_/_'		<del></del> /		Month	Day	Year
TR									
	18. Discrepancy		_						
	18a. Discrepancy Indication Space Quantity Type	L	Residue		Partial Reje	ction		Full Reje	cțion
		M	anifest Reference	Number					1
≥	18b. Alternate Facility (or Generator)		annest i vererende	Number.	U.S. EPA ID N	umber			
CIL									
E C	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
H	Toc. Signature of Alternate Facility (of Generator)						WORLD		l
DESIGNATED FACILITY	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste trea	atment, disposal, and rec	ycling systems)						1
DES		3.			4.				
	TIONU								
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials cover Printed/Typed Name	red by the manifest excep Signature	pt as noted in Item	n 18a	···		Month	Dav	Year
	TPS/c OrppAp	( ) )	ONDOL	) M	MAAA	_	η <b>Q</b>		N 19
Ľ	Form 8700-22 (Rev. 12-17) Previous editions are obsolete.	<u> </u>	DEC		D FACILITY			ECT C	YSTEM

# RECEIVED APR 2 0 2020

US Ecology 7 P.O. Box 307 3277 County Robstown, T2	Road 69		: (800) 242 3209 (361) 387-3518 : (361) 387 0794 (361) 387-0577	×
a US Ecolog	gy Inc. company	Texas, Inc.		
			INVOICE	
			Page 1 of 1	
SET	ENVIRONMEN		ce #: TC163951	
	: ACCOUNTS 8 CHESWOOD S	Custome	date: 04/20/2020 er ID: 7566 / 7566	
	USTON, TX 7708	AX Custome	r ID: C002779	
Please remi	it checks to:	AX Invoice Custome	er ID: C002779	
P O Box 936 Atlanta, GA 3	5227	Please wire to: Bank: Wells Fargo Bank, ABA: 121000248	N.A. Account #: 41409	09680
		Terms: 30 Days	-1	
		PO# 213	) + 1 4	
Quantity		Init DESCRIPTION	Rate	Total
eference #:				
28448	POUNDS	DISPOSAL OF TRANSFORMER OIL/PCB'S DUG UP FROM USET, MANIFEST 020115799JJK, 9/13/19	\$0.9605	\$27,324.30
23468	POUNDS	DISPOSAL OF TRANSFORMER OIL/PCB'S DUG UP FROM USET, MANIFEST 020115800JJK, 9/13/19	\$0.9605	\$22,541.01
2	PER HOUR	ROLL-OFF TRUCK	\$95.00	\$190.00
4	PER HOUR	DOZER	\$150.00	\$600.00
16	PER HOUR	EXCAVATOR	\$150.00	\$2,400.00
1	LOAD	TRANSPORTATION (MANIFEST 020115800JJK)	\$1,500.00	\$1,500.00
16	PER HOUR	ENVIRONMENTAL SUPERVISOR	\$65.00	\$1,040.00
1.5	EACH	LANDFILL EXCAVATION (\$7,500/10 FT)	\$7,500.00	\$11,250.00
1	LOAD	TRANSPORTATION (MANIFEST 020115799JJK)	\$1,500.00	\$1,500.00
1	EACH	FUEL SURCHARGE 22%	\$330.00	\$330.00
1	EACH	FUEL SURCHARGE 22%	\$330.00	\$330.00
16	PER HOUR	ENVIRONMENTAL TECH/OPERATOR	\$45.00	\$720.00
	× 1	TAPEND XKper la	otal	¢60 705 21
se pour		GLACETTA AMOUNT TING		\$69,725.31
er pour	11-MUCH	-D6-4200 69,725.31 OKPENDE		
		4203		
		ENTERED APP	2 2 1 2020	

\*\* Minimum quantity/minimum charge applied.

# **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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IN THE MATTER OF AN ENFORCEMENT ACTION CONCERNING SET ENVIRONMENTAL, INC. RN100607126 BEFORE THE TEXAS COMMISSION ON

ENVIRONMENTAL QUALITY

#### AGREED ORDER DOCKET NO. 2020-0592-IHW-E

#### I. JURISDICTION AND STIPULATIONS

On \_\_\_\_\_\_\_, the Texas Commission on Environmental Quality ("the Commission" or "TCEQ") considered this agreement of the parties, resolving an enforcement action regarding SET ENVIRONMENTAL, INC. (the "Respondent") under the authority of TEX. HEALTH & SAFETY CODE ch. 361 and TEX. WATER CODE ch. 7. The Executive Director of the TCEQ, through the Enforcement Division, and the Respondent together stipulate that:

- 1. The Respondent owns and operates a hazardous waste treatment and disposal facility located at 5738 Cheswood Street in Houston, Harris County, Texas (the "Facility"). The Facility involves or involved the management of industrial and hazardous waste ("IHW") as defined in TEX. HEALTH & SAFETY CODE ch. 361.
- 2. The Executive Director and the Respondent agree that the TCEQ has jurisdiction to enter this Order pursuant to TEX. WATER CODE §§ 7.002, 7.051, and 7.073, and that the Respondent is subject to TCEQ's jurisdiction. The TCEQ has jurisdiction in this matter pursuant to TEX. WATER CODE § 5.013 because it alleges violations of TEX. HEALTH & SAFETY CODE ch. 361 and the rules of the TCEQ.
- 3. The occurrence of any violation is in dispute and the entry of this Order shall not constitute an admission by the Respondent of any violation alleged in Section II ("Allegations"), nor of any statute or rule.
- 4. An administrative penalty in the amount of \$15,764 is assessed by the Commission in settlement of the violations alleged in Section II ("Allegations"). The Respondent paid \$12,612 of the penalty and \$3,152 is deferred contingent upon the Respondent's timely and satisfactory compliance with all the terms of this Order. The deferred amount shall be waived only upon full compliance with all the terms and conditions contained in this Order. If the Respondent fails to timely and satisfactorily comply with any of the terms or requirements contained in this Order, the Executive Director may demand payment of all or part of the deferred penalty amount.

- 5. The Executive Director and the Respondent agree on a settlement of the matters alleged in this enforcement action, subject to final approval in accordance with 30 TEX. ADMIN. CODE § 70.10(a). Any notice and procedures, which might otherwise be authorized or required in this action, are waived in the interest of a more timely resolution of the matter.
- 6. The Executive Director may, without further notice or hearing, refer this matter to the Office of the Attorney General of the State of Texas ("OAG") for further enforcement proceedings if the Executive Director determines that the Respondent has not complied with one or more of the terms or conditions in this Order.
- 7. This Order represents the complete and fully-integrated agreement of the parties. The provisions of this Order are deemed severable and, if a court of competent jurisdiction or other appropriate authority deems any provision of this Order unenforceable, the remaining provisions shall be valid and enforceable.
- 8. This Order shall terminate five years from its effective date or upon compliance with all the terms and conditions set forth in this Order, whichever is later.
- 9. The Executive Director recognizes that the Respondent implemented the following corrective measures at the Facility:
  - a. Placed new lids on two 55-gallon drums located in container storage area ("CS") 2 and one 55-gallon drum in CS-3 containing hazardous waste with new lids on December 20, 2019;
  - b. Provided signage for permitted tank PT-12 and two permitted container storage areas CS-1 and CS-2 on December 20, 2019; and
  - c. Disposed of the polychlorinated biphenyl ("PCB") contaminated waste at an authorized facility on September 23, 2019.

#### **II. ALLEGATIONS**

During an investigation conducted on October 8, 2019, an investigator documented that the Respondent:

- 1. Failed to prevent the receipt and storage of IHW without the required permit and allowed the disposal of IHW at an unauthorized facility, in violation of 30 TEX. ADMIN. CODE §§ 305.125(1), 335.2, and 335.4(3) and Hazardous Waste Permit No. 50267 Permit Provision ("PP") II.A.2, II.A.7, and IV.B.3.a. Specifically, the Facility accepted and stored for 36 days one 55-gallon drum containing 226 kilograms of PCB contaminated waste before shipping it to an unauthorized disposal facility.
- 2. Failed to ensure that hazardous waste containers remain closed when in storage except when adding or removing waste, in violation of 30 TEX. ADMIN. CODE § 335.152(a)(7) and 40 Code of Federal Regulations § 264.173(a) and Hazardous Waste Permit No. 50267 PP II.A.2, II.C.1.j, and C.2.g. Specifically, two 55-gallon drums located in container storage area CS-2 and one 55-gallon drum in CS-3 were open.

3. Failed to clearly identify authorized storage units with signs indicating "TCEQ Permit Unit No.", in violation of 30 TEX. ADMIN. CODE § 305.125(1) and Hazardous Waste Permit No. 50267 PP II.A.2 and V.A.1. Specifically, permitted tank PT-12 did not have an identifying sign and signs on permitted container storage areas CS-1 and CS-2 were faded and illegible.

#### **III. DENIALS**

The Respondent generally denies each allegation in Section II ("Allegations").

#### **IV. ORDERING PROVISIONS**

NOW, THEREFORE, THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ORDERS that:

1. The Respondent is assessed a penalty as set forth in Section I, Paragraph No. 4. The payment of this penalty and the Respondent's compliance with all of the requirements set forth in this Order resolve only the allegations in Section II. The Commission shall not be constrained in any manner from requiring corrective action or penalties for violations which are not raised here. Penalty payments shall be made payable to "TCEQ" and shall be sent with the notation "Re: SET ENVIRONMENTAL, INC., Docket No. 2020-0592-IHW-E" to:

Financial Administration Division, Revenue Operations Section Attention: Cashier's Office, MC 214 Texas Commission on Environmental Quality P.O. Box 13088 Austin, Texas 78711-3088

- 2. All relief not expressly granted in this Order is denied.
- 3. The duties and provisions imposed by this Order shall apply to and be binding upon the Respondent. The Respondent is ordered to give notice of this Order to personnel who maintain day-to-day control over the Facility operations referenced in this Order.
- 4. The Executive Director may grant an extension of any deadline in this Order or in any plan, report, or other document submitted pursuant to this Order, upon a written and substantiated showing of good cause. All requests for extensions by the Respondent shall be made in writing to the Executive Director. Extensions are not effective until the Respondent receives written approval from the Executive Director. The determination of what constitutes good cause rests solely with the Executive Director.
- 5. This Order, issued by the Commission, shall not be admissible against the Respondent in a civil proceeding, unless the proceeding is brought by the OAG to: (1) enforce the terms of this Order; or (2) pursue violations of a statute within the Commission's jurisdiction, or of a rule adopted or an order or permit issued by the Commission under such a statute.
- 6. This Order may be executed in separate and multiple counterparts, which together shall constitute a single instrument. Any page of this Order may be copied, scanned, digitized,

converted to electronic portable document format ("pdf"), or otherwise reproduced and may be transmitted by digital or electronic transmission, including but not limited to facsimile transmission and electronic mail. Any signature affixed to this Order shall constitute an original signature for all purposes and may be used, filed, substituted, or issued for any purpose for which an original signature could be used. The term "signature" shall include manual signatures and true and accurate reproductions of manual signatures created, executed, endorsed, adopted, or authorized by the person or persons to whom the signatures are attributable. Signatures may be copied or reproduced digitally, electronically, by photocopying, engraving, imprinting, lithographing, electronic mail, facsimile transmission, stamping, or any other means or process which the Executive Director deems acceptable. In this paragraph exclusively, the terms: electronic transmission, owner, person, writing, and written, shall have the meanings assigned to them under TEX. BUS. ORG. CODE § 1.002.

7. The effective date of this Order is the date it is signed by the Commission. A copy of this fully executed Order shall be provided to each of the parties.

# SIGNATURE PAGE

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

For the Commission

Date

Date

For the Executive Director

I, the undersigned, have read and understand the attached Order. I am authorized to agree to the attached Order, and I do agree to the terms and conditions specified therein. I further acknowledge that the TCEQ, in accepting payment for the penalty amount, is materially relying on such representation.

I also understand that failure to comply with the Ordering Provisions, if any, in this Order and/or failure to timely pay the penalty amount, may result in:

- A negative impact on compliance history;
- Greater scrutiny of any permit applications submitted;
- Referral of this case to the Attorney General's Office for contempt, injunctive relief, additional penalties, and/or attorney fees, or to a collection agency;
- Increased penalties in any future enforcement actions;
- Automatic referral to the Attorney General's Office of any future enforcement actions; and
- TCEQ seeking other relief as authorized by law.

In addition, any falsification of any compliance documents may result in criminal prosecution.

Signature

Date

Name (Printed or typed) Authorized Representative of SET ENVIRONMENTAL, INC. Title

 $\Box$  If mailing address has changed, please check this box and provide the new address below:

S COMMERCE	Policy Rev	Pe rision 4 (April 2014)	nalty Cal	culatio	n Worksh	neet (PC		Revision March 26	5, 2014
DATES	Assigned PCW		Screening 2	2 4pm 2020	EPA Due				
				2-Apr-2020	EPA Due				
RESPO		TY INFORMATIC SET ENVIRONME							
	g. Ent. Ref. No.	RN100607126							
Facili	ty/Site Region	12-Houston			Major/M	linor Source	Major		
	NFORMATION	50050							
En	f./Case ID No. Docket No.	59252 2020-0592-IHW-	·F		No. d	of Violations Order Type	-		
Med		Industrial and Ha				/Non-Profit	No		
	Multi-Media				Enf.		Stephanie McC Enforcement T		
Adr	min. Penalty \$	Limit Minimum	\$0 <b>M</b> a	aximum	\$25,000		Linorcement		
			Penalty	Calcula	tion Section	on			
ΤΟΤΑΙ	L BASE PENA	LTY (Sum of	violation ba	se penalt	ies)		Subtotal 1	\$24	4,250
ADJU	STMENTS (+	/-) TO SUBTO	DTAL 1						
	Subtotals 2-7 are of Compliance Hi	tained by multiplying	the Total Base Pena	alty (Subtotal 1) -10.0%	by the indicated pe Adjustment		tals 2, 3, & 7	-\$3	2,425
	compliance in					Cubic	(uio <b>1</b> ) <b>0</b> ) u )		_/
	Notes	R	eduction for Hig	h Performer	classification.				
	Culpability	No		0.0%	Enhancement		Subtotal 4		\$0
	Notes	The Re	spondent does r	not meet the	culpability crite	ria.			
	Good Faith Eff	ort to Comply Te	otal Adjustmer	nts			Subtotal 5	-\$(	6,061
	Economic Ben		ta aa (		Enhancement*	1	Subtotal 6		\$0
	Estimated	Total EB Amounts I Cost of Compliance	\$3,804 \$70,875	*Cappe	d at the Total EB \$ A	AMOUNT			
SUM C	OF SUBTOTA	LS 1-7				F	inal Subtotal	\$1!	5,764
OTHE		AS JUSTICE M		-	0.0%		Adjustment		\$0
		Subtotal by the indic			0.070		Aujustinent		<b>40</b>
	Notes								
	Notes								
						Final Pen	alty Amount	\$1	5,764
STATU	JTORY LIMIT		IT			Final Asse	ssed Penalty	\$1!	5,764
DEFE					20.0%	Deduction	Adjustment	_¢3	2 1 5 2
		nalty by the indicated	percentage.		20.0%	Reduction	Adjustment		3,152
	Notes	г	Deferral offered	for expedite	1 settlement				
ΡΑΥΑ	BLE PENALT	1						\$12	2,612

(	espondent SET ENVIRONMENTAL, INC. Sase ID No. 59252 erence No. RN100607126		licy Revision 4 (Apl W Revision March 2
Enf	Media Industrial and Hazardous Waste		
Compliance F	Compliance History Worksheet istory Site Enhancement (Subtotal 2)		
Componei		Number	Adjust.
NOVs	Written notices of violation ("NOVs") with same or similar violations as those in the current enforcement action ( <i>number of NOVs meeting criteria</i> )	0	0%
	Other written NOVs	0	0%
	Any agreed final enforcement orders containing a denial of liability ( <i>number of orders meeting criteria</i> )	0	0%
Orders	Any adjudicated final enforcement orders, agreed final enforcement orders without a denial of liability, or default orders of this state or the federal government, or any final prohibitory emergency orders issued by the commission		0%
Judgmen and Conse		0	0%
Decrees	Any adjudicated final court judgments and default judgments, or non-adjudicated final court judgments or consent decrees without a denial of liability, of this state or the federal government	9 0	0%
Convictio	Any criminal convictions of this state or the federal government ( <i>number of counts</i> )	e 0	0%
Emission		0	0%
Audits	Letters notifying the executive director of an intended audit conducted under the Texas Environmental, Health, and Safety Audit Privilege Act, 74th Legislature, 1995 (number of audits for which notices were submitted)		0%
Addits	Disclosures of violations under the Texas Environmental, Health, and Safety Audit Privilege Act, 74th Legislature, 1995 ( <i>number of audits for which violations were</i> <i>disclosed</i> )		0%
	Environmental management systems in place for one year or more	No	0%
Other	Voluntary on-site compliance assessments conducted by the executive director under a special assistance program	No	0%
	Participation in a voluntary pollution reduction program	No	0%
	Early compliance with, or offer of a product that meets future state or federal government environmental requirements	No	0%
	Adjustment Pe	rcentage (Su	btotal 2)
Repeat Violat	or (Subtotal 3)	recenteres (Su	htatal 2)
	No Adjustment Pe	rcentage (Su	btotal 3)
Compliance H	istory Person Classification (Subtotal 7)		
	Performer Adjustment Pe	rcentage (Su	btotal 7) -
Compliance H	istory Summary		
Complian History Notes	Reduction for High Performer classification.		
	Total Compliance History Adjustment Percentage	(Subtotals 2,	, 3, & 7) -
inal Compliar		tage *canned	at 100% -
High Compliance F Complian History Notes	istory Person Classification (Subtotal 7)  Performer Adjustment Period Summary Ce Reduction for High Performer classification.	(Subtotals 2,	btotal 7)

**Docket No.** 2020-0592-IHW-E

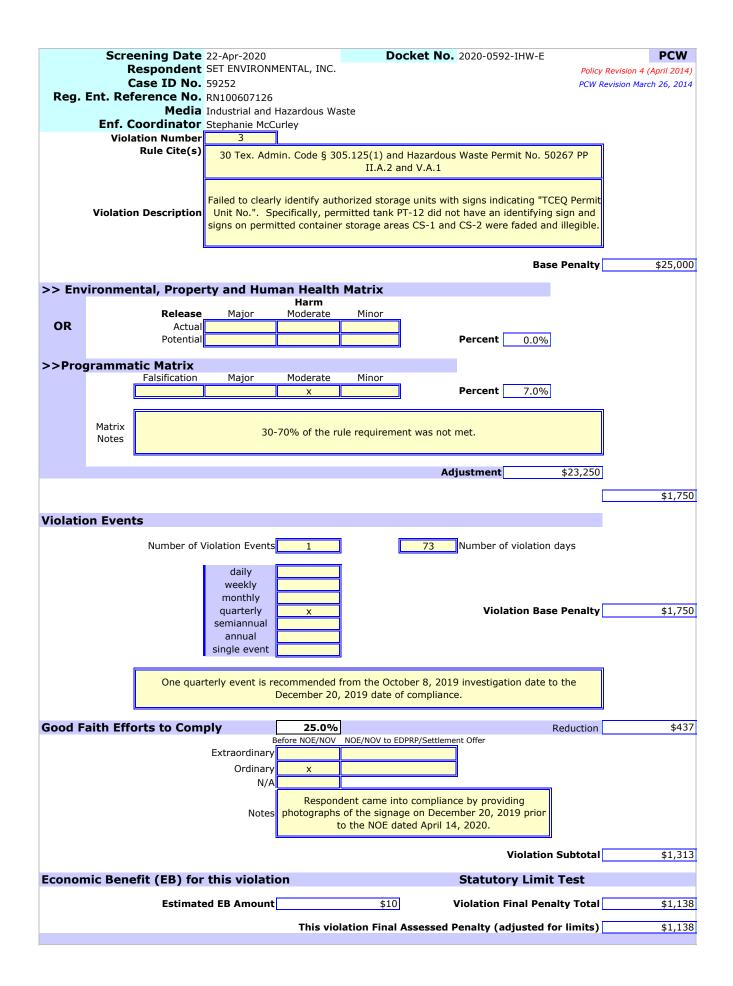
Screening Date 22-Apr-2020

		ening Date			cket No. 2020-0592-IHW-E		PCW
		lespondent Case ID No.	SET ENVIRONMENTAL, IN	NC.		-	Revision 4 (April 2014)
Rea.			S9252 RN100607126			PCW R	Revision March 26, 2014
- 5			Industrial and Hazardous	Waste			
			Stephanie McCurley				
	VIOI	ation Number	I				I de la companya de
		Rule Cite(s)			5.2, and 335.4(3) and Hazard ("PP") II.A.2, II.A.7, and IV.E		
	Violatio	n Description	waste ("IHW") without t unauthorized facility. Sp 55-gallon drum containir	he required perr pecifically, the Fa ng 226 kilograms	nd shipment of industrial and nit and allowed disposal of the cility accepted and stored for 3 of polychlorinated biphenyl co unauthorized disposal facility.	IHW at an 36 days one ontaminated	
					Ва	se Penalty	\$25,000
>> Env	vironme	ntal, Prope	rty and Human Hea	lth Matrix			
		Release	Harm Major Moderat				
OR		Actual					
		Potential	X		Percent 15.0%	)	
>>Proc	aramma	tic Matrix					
		Falsification	Major Modera	te Minor		-	
					Percent 0.0%	,	
		Human healt	th or the environment will	or could be exp	osed to significant amounts of	pollutants	ľ
	Matrix Notes	that would not		rotective of hum sult of the violat	an health or environmental rec ion.	eptors as a	
					Adjustment	\$21,250	
					Aujustment	\$21,250	
							\$3,750
Violatio	on Event	ts					
		Number of \	/iolation Events 5		397 Number of violation	n davs	
			daily weekly				
			monthly				
			quarterly x		Violation Ba	se Penalty	\$18,750
			semiannual annual				
			single event				
							T
		Five quarterl		-	ust 22, 2018 date waste was a 19 date of compliance.	ccepted at	
Cood F	aith Fff	auto to Corre	nly and	20/		Deducti	+ 4 207
900a F		orts to Com	ply 25.0 Before NOE/N		DPRP/Settlement Offer	Reduction	\$4,687
			Extraordinary				
			Ordinary x				
			Notes	•	nto compliance on September	]	
			23, 2	U19 prior to the	NOE dated April 14, 2020.		
					Violatio	n Subtotal	\$14,063
Econon	nic Bene	efit (EB) for	this violation		Statutory Lim	it Test	
		Estimate	ed EB Amount	\$3,792	Violation Final Per	nalty Total	\$12,188
			This v	iolation Final A	Assessed Penalty (adjusted	for limits)	\$12,188

	E	conomic	Benefit	Wo	rksheet		
Respondent		MENTAL, INC.					
Case ID No.	59252						
Reg. Ent. Reference No.	RN100607126	i					
		Hazardous Waste	9				Years of
Violation No.	1					Percent Interest	Depreciation
	-					5.0	15
		Date Required	Final Date	Yrs	Interest Saved	Costs Saved	EB Amount
Item Description							
Delayed Costs				_			
Equipment				0.00	\$0	\$0	\$0
Buildings				0.00	\$0	\$0	\$0
Other (as needed)				0.00	\$0	\$0	\$0
Engineering/Construction				0.00	\$0	\$0	\$0
Land				0.00	\$0	n/a	\$0
Record Keeping System				0.00	\$0	n/a	\$0
Training/Sampling	+ 60 705	22.4 2010	22.0.2010	0.00	\$0	n/a	\$0
Remediation/Disposal	\$69,725	22-Aug-2018	23-Sep-2019	1.09	\$3,792	n/a	\$3,792
Permit Costs Other (as needed)						n/a n/a he waste to an aut	
				0.00 ) to dig	\$0 up and transport t epted the waste a	n/a	\$0
Other (as needed)	The Date I	Required is the da	ate the Respond	0.00) to dig lent acc compli	\$0 up and transport t epted the waste a ance.	n/a	\$0 horized facility the date of
Other (as needed) Notes for DELAYED costs	The Date I	Required is the da	ate the Respond	) to dig lent acc compli	\$0 up and transport t epted the waste a ance. item (except for \$0	n/a the waste to an aut nd the Final Date is <b>one-time avoide</b> \$0	\$0 norized facility, the date of d costs) \$0
Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel	The Date I	Required is the da	ate the Respond	) to dig lent acc compli tering 0.00	\$0 up and transport t epted the waste a ance. item (except for \$0 \$0	n/a the waste to an aut nd the Final Date is <b>one-time avoide</b> \$0 \$0	\$0 horized facility the date of d costs) \$0 \$0
Other (as needed) Notes for DELAYED costs Avoided Costs Disposal Personnel Inspection/Reporting/Sampling	The Date I	Required is the da	ate the Respond	0.00 to dig lent acc compli tering 0.00 0.00	\$0 up and transport t epted the waste a ance. item (except for \$0 \$0 \$0	n/a the waste to an aut nd the Final Date is one-time avoider \$0 \$0 \$0	\$0 norized facility the date of d costs) \$0 \$0 \$0
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Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel Inspection/Reporting/Sampling Supplies/Equipment Financial Assurance ONE-TIME avoided costs	The Date I	Required is the da	ate the Respond	0.00 to dig lent acc compli 0.00 0.00 0.00 0.00 0.00	\$0 up and transport to epted the waste a ance. item (except for \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	n/a the waste to an autind the Final Date is one-time avoider \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 norized facility the date of d costs) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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		ening Date	•	Docket No. 2020-0592-IHW-E	PCW
		cespondent Case ID No.	SET ENVIRONMENTAL, INC. 59252		cy Revision 4 (April 2014) / Revision March 26, 2014
Reg.		erence No.	RN100607126		
	Enf (		Industrial and Hazardous Wa Stephanie McCurley	aste	
		ation Number			_
		Rule Cite(s)	30 Tex Admin Code S	335.152(a)(7) and 40 Code of Federal Regulations	
			-	s Waste Permit No. 50267 PP II.A.2, II.C.1.j, and C.2.g	<b>a</b>
					_
				rdous waste containers remain closed when in storage	
	Violatio	n Description		oving waste. Specifically, two 55-gallon drums located a CS-2 and one 55-gallon drum in CS-3 were open.	
				Base Penalt	<b>y</b> \$25,000
	vironmo	ntal Drona	the and Human Health		·
>> EN	vironne	iitai, Propei	r <b>ty and Human Health</b> Harm	Mauix	
OR		<b>Release</b> Actual	Major Moderate	Minor	
ÖK		Potential	X	Percent 15.0%	
>>Bro	aramma	tic Matrix			
22FIU	granna	Falsification	Major Moderate	Minor	
				Percent 0.0%	
		Human health	or the environment will or co	ould be exposed to significant amounts of pollutants that	at
	Matrix Notes		eed levels that are protective	of human health or environmental receptors as a result	
			0	f the violation.	
				Adjustment \$21,25	0
					\$3,750
Violati	on Even	te			
Violati	on Even	ts			
Violati	on Even		/iolation Events 1	73 Number of violation days	
Violati	on Even		/iolation Events 1	73 Number of violation days	
Violati	on Even		daily weekly	73 Number of violation days	
Violati	on Even		daily	73 Number of violation days Violation Base Penalt	<b>y</b> \$3,750
Violati	on Even		daily weekly monthly quarterly x semiannual		<b>y</b> \$3,750
Violati	on Even		daily weekly monthly quarterly		<b>y</b> \$3,750
Violati	on Even		daily weekly monthly quarterly x semiannual annual		<b>y</b> \$3,750
Violati	on Even	Number of \	daily weekly monthly quarterly x semiannual annual single event terly event is recommended	Violation Base Penalt from the October 8, 2019 investigation date to the	<b>y</b> \$3,750
Violati	on Even	Number of \	daily weekly monthly quarterly x semiannual annual single event terly event is recommended	Violation Base Penalt	<b>y</b> \$3,750
		Number of \	daily weekly monthly quarterly x semiannual annual single event terly event is recommended December 20	Violation Base Penalt from the October 8, 2019 investigation date to the , 2019 date of compliance. Reduction	
		Number of N	daily weekly monthly quarterly x semiannual annual single event terly event is recommended December 20	Violation Base Penalt from the October 8, 2019 investigation date to the , 2019 date of compliance. Reduction	
		Number of N	daily weekly monthly quarterly x semiannual annual single event terly event is recommended December 20	Violation Base Penalt from the October 8, 2019 investigation date to the , 2019 date of compliance. Reduction	
		Number of N	daily weekly monthly quarterly x semiannual annual single event terly event is recommended December 20 ply 25.0% Before NOE/NOV Extraordinary	Violation Base Penalt from the October 8, 2019 investigation date to the , 2019 date of compliance. Reduction	
		Number of N	daily weekly monthly quarterly x semiannual annual single event terly event is recommended December 20 ply 25.0% Before NOE/NOV Extraordinary  Ordinary x N/A Respon photographs	from the October 8, 2019 investigation date to the , 2019 date of compliance. NOE/NOV to EDPRP/Settlement Offer	
		Number of N	daily weekly monthly quarterly semiannual annual single event terly event is recommended December 20 ply 25.0% Before NOE/NOV Extraordinary Ordinary N/A Respon photographs	from the October 8, 2019 investigation date to the , 2019 date of compliance. NOE/NOV to EDPRP/Settlement Offer dent came into compliance by providing of the drums with new lids on December 20, to the Notice of Enforcement ("NOE") dated	
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		Number of N	daily weekly monthly quarterly semiannual annual single event terly event is recommended December 20 ply 25.0% Before NOE/NOV Extraordinary Ordinary N/A Respon photographs	from the October 8, 2019 investigation date to the , 2019 date of compliance. NOE/NOV to EDPRP/Settlement Offer dent came into compliance by providing of the drums with new lids on December 20, to the Notice of Enforcement ("NOE") dated	n\$937
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Good F	Faith Eff	Number of N One quar	daily weekly monthly quarterly semiannual annual single event terly event is recommended December 20 ply 25.0% Before NOE/NOV Extraordinary Ordinary N/A Notes Notes this violation	from the October 8, 2019 investigation date to the , 2019 date of compliance. NOE/NOV to EDPRP/Settlement Offer dent came into compliance by providing of the drums with new lids on December 20, to the Notice of Enforcement ("NOE") dated April 14, 2020. Violation Subtota Statutory Limit Test	sl \$2,813

	E	conomic	Benefit	Wo	rksheet		
Respondent		MENTAL, INC.					
Case ID No.	59252						
eg. Ent. Reference No.	RN100607126	5					
		Hazardous Waste	2				Years of
Violation No.	2					Percent Interest	Depreciation
	2					5.0	1!
	Item Cost	Date Required	Final Date	Yrs	Interest Saved	Costs Saved	EB Amount
Item Description							
Delayed Costs							
Equipment				0.00	\$0	\$0	\$0
Buildings				0.00	\$0	\$0	\$0
Other (as needed)				0.00	\$0	\$0	\$0
Engineering/Construction				0.00	\$0	\$0	\$0
Land				0.00	\$0	n/a	\$0
Record Keeping System				0.00	\$0	n/a	\$0
Training/Sampling				0.00	\$0	n/a	\$0
Remediation/Disposal				0.00	\$0	n/a	\$0
Permit Costs				0.00	\$0	n/a	\$0
Permit Costs Other (as needed)	\$150	8-Oct-2019	20-Dec-2019	0.00	\$0 \$2	n/a n/a	\$0 \$2
Other (as needed) Notes for DELAYED costs	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final	\$0 \$2 new lids (\$50 per Date is the date o	n/a n/a r lid). The Date Rec f compliance.	\$0 \$2 quired is the
Other (as needed) Notes for DELAYED costs Avoided Costs	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final tering	\$0 \$2 new lids (\$50 per Date is the date o item (except for	n/a n/a lid). The Date Rec f compliance.	\$0 \$2 quired is the d costs)
Other (as needed) Notes for DELAYED costs Avoided Costs Disposal	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final tering 0.00	\$0 \$2 new lids (\$50 per Date is the date o item (except for \$0	n/a n/a r lid). The Date Rec f compliance. r one-time avoided \$0	\$0 \$2 quired is the d costs) \$0
Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final tering 0.00	\$0 \$2 new lids (\$50 per Date is the date o item (except for \$0 \$0	n/a n/a lid). The Date Rec f compliance.	\$0 \$2 quired is the d costs) \$0 \$0
Other (as needed) Notes for DELAYED costs Avoided Costs Disposal Personnel nspection/Reporting/Sampling	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final tering 0.00 0.00	\$0 \$2 new lids (\$50 per Date is the date o item (except for \$0 \$0 \$0 \$0	n/a n/a lid). The Date Rec f compliance.	\$0 \$2 uired is the d costs) \$0 \$0 \$0
Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel nspection/Reporting/Sampling Supplies/Equipment	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 e Final tering 0.00 0.00 0.00	\$0 \$2 new lids (\$50 per Date is the date o item (except for \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	n/a n/a lid). The Date Rec f compliance. one-time avoider \$0 \$0 \$0 \$0 \$0	\$0 \$2 uired is the d costs) \$0 \$0 \$0 \$0 \$0 \$0
Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel inspection/Reporting/Sampling Supplies/Equipment Financial Assurance	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final 0.00 0.00 0.00 0.00 0.00	\$0 \$2 new lids (\$50 per Date is the date o <b>item (except for</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	n/a n/a f compliance. <b>one-time avoide</b> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$2 uired is the d costs) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Other (as needed) Notes for DELAYED costs <b>Avoided Costs</b> Disposal Personnel inspection/Reporting/Sampling Supplies/Equipment Financial Assurance ONE-TIME avoided costs	Estimated	delayed cost to f investiga	it the three drui tion date and th	0.00 0.20 ms with e Final 0.00 0.00 0.00 0.00 0.00 0.00	\$0 \$2 new lids (\$50 per Date is the date o item (except for \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	n/a n/a flid). The Date Rec f compliance. one-time avoider \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$2 quired is the d costs) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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	E	conomic	Benefit	Wo	rksheet		
Respondent	SET ENVIRON	MENTAL, INC.					
Case ID No.	59252						
leg. Ent. Reference No.	RN100607126	5					
		Hazardous Waste	2				Years of
Violation No.	3					Percent Interest	Depreciation
	5					5.0	1
	Thom Cost	Date Deguired	Final Date	Ver	Interest Saved	Costs Saved	EB Amount
		Date Required	Final Date	TIS	Interest Saved	Costs Saved	EB Amount
Item Description							
Delayed Costs							
Equipment				0.00	\$0	\$0	\$0
Buildings				0.00	\$0	\$0	\$0
Other (as needed)				0.00	\$0	\$0	\$0
Engineering/Construction				0.00	\$0	\$0	\$0
Land				0.00	\$0	n/a	\$0
Record Keeping System				0.00	\$0	n/a	\$0
Training/Sampling				0.00	\$0	n/a	\$0
Remediation/Disposal				0.00	\$0	n/a	\$0
Permit Costs Other (as needed)	\$1,000	8-Oct-2019	20-Dec-2019	0.00	\$0 \$10	n/a n/a	\$0 \$10
					al and two starsa		
Notes for DELAYED costs	Estimated de	elayed cost to pro investigat			Date is the date of		Required is the
Notes for DELAYED costs Avoided Costs		investiga	tion date and th	e Final	Date is the date o		
Avoided Costs Disposal		investiga	tion date and th	e Final tering	Date is the date of item (except for \$0	f compliance.	<b>i costs)</b> \$0
Avoided Costs Disposal Personnel		investiga	tion date and th	e Final tering 0.00 0.00	Date is the date of item (except for \$0 \$0	f compliance. • one-time avoide \$0 \$0	<b>1 costs)</b> \$0 \$0
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Avoided Costs Disposal Personnel Inspection/Reporting/Sampling Supplies/Equipment		investiga	tion date and th	e Final tering 0.00 0.00 0.00 0.00	Date is the date o item (except for \$0 \$0 \$0 \$0 \$0 \$0	f compliance. one-time avoided \$0 \$0 \$0 \$0	<b>d costs)</b> \$0 \$0 \$0 \$0 \$0
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Avoided Costs Disposal Personnel Inspection/Reporting/Sampling Supplies/Equipment Financial Assurance		investiga	tion date and th	e Final tering 0.00 0.00 0.00 0.00 0.00	Date is the date o item (except for \$0 \$0 \$0 \$0 \$0 \$0	f compliance. o one-time avoided \$0 \$0 \$0 \$0 \$0 \$0	<b>l costs)</b> \$0 \$0 \$0 \$0 \$0 \$0
Avoided Costs Disposal Personnel Inspection/Reporting/Sampling Supplies/Equipment Financial Assurance ONE-TIME avoided costs		investiga	tion date and th	e Final tering 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Date is the date o item (except for \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	f compliance. one-time avoided \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 costs) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director* 



# **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Protecting Texas by Reducing and Preventing Pollution

February 3, 2022

Mr. Daniel Didier, Compliance Director SET Environmental, Inc. 5738 Cheswood Street Houston, Texas 77087

Re: Compliance Evaluation Investigation at: SET Environmental, 5738 Cheswood Street, Houston (Harris County), Texas TCEQ SWR No.: 50267; Permit No.: 50267; EPA ID No.: TXD055135388

Dear Mr. Didier:

On December 02, 2021, Ms. Naomi Hall, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for industrial solid waste. No violations are being alleged as a result of the investigation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Hall in the Houston Region Office at (713) 767-3702.

Sincerely,

Carlos R. Romo

Carlos R. Romo Team Leader Waste Section Houston Region Office

CRR/NGH/lm

TCEQ Region 12 • 5425 Polk St., Ste. H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

Austin Headquarters: 512-239-1000 • tceq.texas.gov • How is our customer service? tceq.texas.gov/customersurvey printed on recycled paper Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Kelly Keel, *Interim Executive Director* 



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 8, 2023

Mr. Daniel Didier, Compliance Director Set Environmental, Inc. 5738 Cheswood Street Houston, Texas 77087

Re: Compliance Evaluation Investigation at: Set Environmental, 5738 Cheswood Street, Houston (Harris County), Texas TCEQ SWR No.: 50267; Permit No. 50267; EPA ID No.: TXD055135388

Dear Mr. Didier:

On October 23, 2023, Ms. Oindrila Das of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for industrial solid waste and municipal solid waste. Enclosed is a summary which lists the investigation findings.

During the investigation, some concerns were noted which were alleged violations that have been resolved as Areas of Concern based on subsequent corrective action. In addition, some additional issues were identified that have been addressed. No further response from you is necessary concerning this investigation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Das in the Houston Region Office at (713) 767-3749.

Sincerely,

Kendra Bernhagen

Kendra Bernhagen, Team Leader Waste Section Houston Region Office

KB/OD/sj

Enclosure: Summary of Investigation Findings

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#### SET ENVIRONMENTAL

5738 CHESWOOD ST HOUSTON, HARRIS COUNTY, TX 77087

Additional ID(s): 50267 TXD055135388 50267

# AREA OF CONCERN

Track No: 860610 30 TAC Chapter 335.6(c) PERMIT 50267, Permit Provision (PP) II.C.1.h. Alleged Violation: Investigation: 1924719

Comment Date: 12/07/2023

Investigation # 1924719 Investigation Date: 10/23/2023

The facility failed to maintain and update their Notice of Registration (NOR) as required.

The facility's NOR needs to be updated as follows:

a. Add waste currently managed at unit to NOR No. 045 or update waste management unit (Nonhazardous miscellaneous storage container) as inactive.

**Recommended Corrective Action:** The facility is requested to update the NOR through the State of Texas Environmental Electronic Reporting System (STEERS) and/or by sending a form (Notification for hazardous and industrial waste management) to the TCEQ Registration and Reporting Section (PO Box 13087, Mail Code 129, Austin, Texas 78711-3087).

**Resolution:** The alleged violation has been resolved as an area of concern based on the documentation submitted on October 29, 2023, to the TCEQ Houston Region Office, indicating that the NOR has been updated.

Track No: 860612 30 TAC Chapter 305.142

PERMIT 50267, PP II.A.2./V.A.1.

Alleged Violation:

Investigation: 1924719

Comment Date: 11/08/2023

The facility failed to label or mark the authorized waste management unit, permitted tank (Permit No. 015/NOR No. 039) with a sign indicating "TCEQ Permit Unit No. 015, as required by the permit.

**Recommended Corrective Action:** The facility was required to label the permitted tank properly and provide photographic documentation to the TCEQ Houston Region Office to verify compliance.

**Resolution:** The alleged violation has been resolved as an area of concern based on the photographic documentation submitted on October 29, 2023, to the TCEQ Houston Region Office.

#### **ADDITIONAL ISSUES**

Description

Additional Comments

Summary of Investigation Findings

SET ENVIRONMENTAL	Investigation # 192471
Item #3	During the walkthrough, the SAAs 3, 4, and 5 were noted without the label or mark 'Satellite Accumulation Area.
	The facility was requested to label or mark the area properly and send the photographic documentatior to the TCEQ Houston Region Office.
	The additional issue has been addressed based or the documentation submitted on October 29, 2023 to the TCEQ Houston Region Office.
Item #4	During the investigation, the permitted tank, NOR No. 051, was noted to be inactive. Additionally, it was noted that the permitted tank, NOR No. 039, has not been in use for a year.
	The facility was requested to review the permitted tanks for closure per 30 TAC §335.8 - Closure and Remediation, and 30 TAC §350 - Texas Risk Reduction Program.
	The additional issue has been addressed based or the documentation submitted on November 16, 2023, to the TCEQ Houston Region Office, stating that the facility reviewed and elected to close the tank, NOR No. 039 and to retain the tank, NOR No 051 for future use.

Jon Niermann, *Chairman* Bobby Janecka, *Commissioner* Catarina R. Gonzales, *Commissioner* Kelly Keel, *Executive Director* 



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 17, 2024

Mr. Walter Kilgus General Manager SET Environmental, Inc. 5738 Cheswood Street Houston, Texas 77087-4002 Via Email

Re: General Compliance Letter for the Modified Comprehensive Compliance Investigation at: SET Environmental, Inc. 5743 Cheswood Street, Houston, Harris County, Texas Regulated Entity No.: 100607126, TCEQ ID No.: WQ0004123000, EPA ID No.: TX0119211 Investigation No.: 1994541

Dear Mr. Kilgus:

On June 18, 2024, Ms. Jimi Savage of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for wastewater treatment. No violations are being alleged as a result of the investigation; however, please see the attached Area of Concern.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Jimi Savage in the Houston Region Office at (713) 767-3657.

Sincerely. INNO .

Elaine Fowler Water Section Team Leader Houston Region 12

EF/JS/kg

cc: Mr. Daniel Didier, Compliance Director, SET Environmental, Inc. Via Email

Enclosure: Summary of Investigation Findings

TCEQ Region 12 • 5425 Polk St., Ste. H • Houston, Texas 77023-1452 • 713-767-3500 • Fax 713-767-3520

# **Summary of Investigation Findings**

#### SET ENVIRONMENTAL

5738 CHESWOOD ST

Investigation # 1994541

Investigation Date: 06/18/2024

HOUSTON, HARRIS COUNTY, TX 77087

Additional ID(s): WQ0004123000 TX0119211

# AREA OF CONCERN

Track No: 883609 30 TAC Chapter 305.125(1) 30 TAC Chapter 319.7(d)

PERMIT WQ0004123000, Monitoring & Reporting Requirements 1 EPA ID TX0119211, Monitoring & Reporting Requirements 1

Alleged Violation:

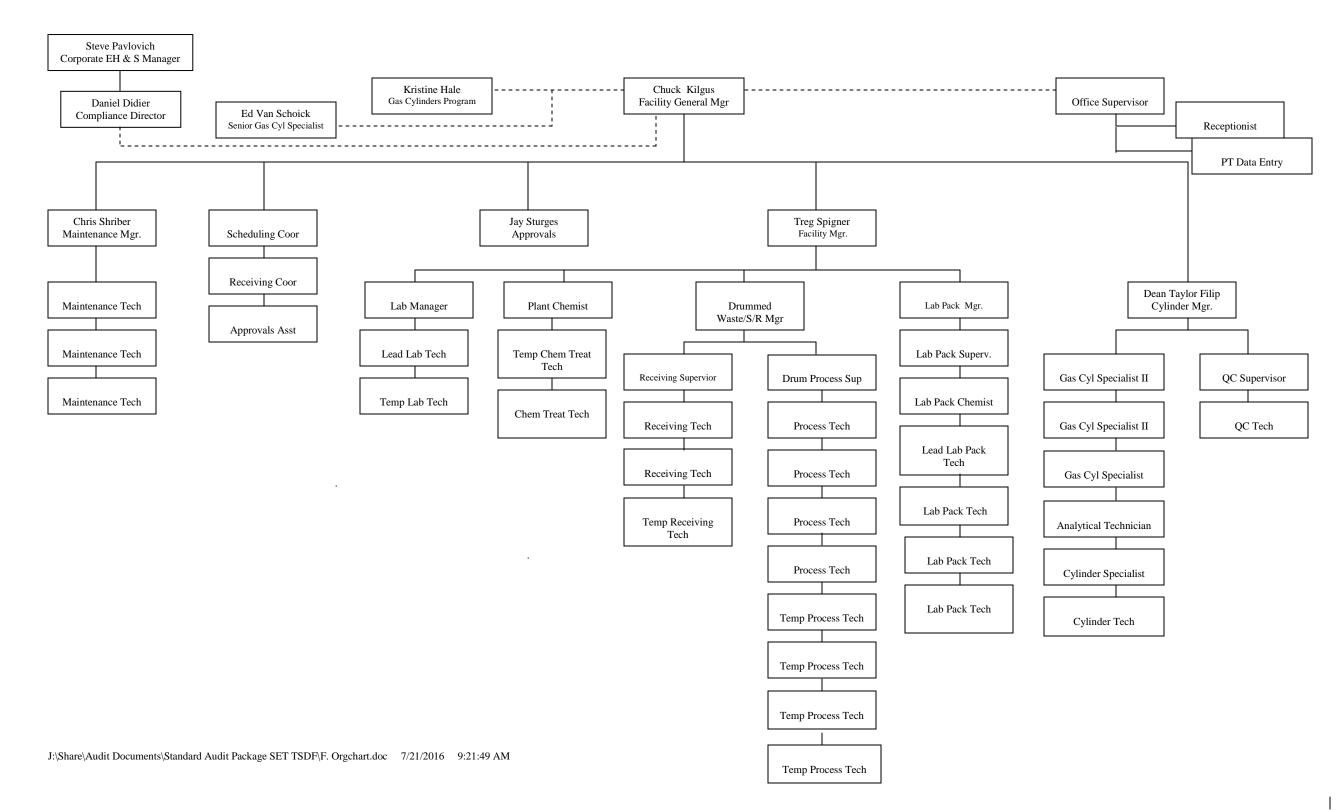
Investigation: 1994541

Comment Date: 06/21/2024

Failure to submit the discharge monitoring reports (DMRs) within the required timeframe. Specifically, during the record review period of June 2023 through June 2024, three (3) monthly DMRs (October 2023, February 2024, and March 2024) were submitted after the 20th day of the following months (November 28, 2023, March 28, 2024, and April 22, 2024, respectively).

**Recommended Corrective Action:** DMRs must be submitted by the 20th day of the month following the month in which the DMR was submitted for. The regulated entity shall submit documentation indicating that DMRs are being submitted on time.

**Resolution:** DMRs for the months of April and May 2024 were submitted on time by the regulated entity.



# XVII. PERSONNEL TRAINING PROGRAM

# 1.0 PURPOSE

The purpose of this program is to establish procedures for effective classroom and on-the-job training in company and governmental environmental, health and safety requirements. To this end training will focus on:

- 1. The hazardous nature of chemicals and chemical wastes.
- 2. The purpose of applicable governmental regulations and the importance of maintaining compliance with these regulations.
- 3. Proper handling and storage procedures.
- 4. Emergency procedures.
- 5. Standard operating and safety procedures.
- 6. Cardiopulmonary resuscitation (CPR) and standard first aid.

SET Environmental training program is divided into the following five categories:

- Administrative
- O Safety
- O Technical
- O Regulatory
- O Operational

Provisions are made for updating or revising training programs as necessary to ensure compliance with company and government requirements.

## 2.0 FREQUENCY, TYPE AND AMOUNT OF TRAINING

Training must be completed prior to actual work participation. New employees spend their first three months of employment in training. Initial training includes a minimum of forty hours of classroom instruction and demonstration for each new employee. Initial training obtained prior to employment at SET Environmental will be accepted for non-site specific topics if proof of training can be provided to SET Environmental. In addition to classroom training, each new employee is required to complete 456 hours (or the balance of three months) of on-the-job training under the direct supervision of an employee trained and experienced in the same or similar job position.

Employees will receive a minimum of eight hours of annual review training to maintain their competencies obtained through initial training in a classroom instruction format. Although authorized by 1910.120(q)(8), SET Employees may not demonstrate competency in lieu of actual annual classroom instruction. When successfully completed a certificate of training will be issued. Review training provided on an annual, biannual or triennial frequency is specified in

Figures 1 and 2. Annual review for TSDF employees will also include discussion on the following topics:

- 1. The status of storage and operating conditions and procedures, noting any areas where there are problems or potential problems. Employees participate in developing effective solutions.
- 2. The requirements of the facility's RCRA permit, noting any changes that have occurred in the past year. Areas where maintenance of compliance is a problem are identified and discussed; effective solutions are sought.
- 3. Incidents that occurred in the past year that required implementation of the contingency plan or emergency action. This review focuses on the cause of the incident and identification of steps to be taken to prevent or to ensure better handling of such events in the future.

The chart below summarizes the amount of initial and continued training.

## Initial Training

Classroom instruction40 hoursOn-the-job training456 hours

Continuation Training

Annual review

8 hours/year

Training is supplemented by memorandum format updates on new or modified policies and procedures required as a result of regulatory changes, receipt of new equipment, etc. This information will be presented to employees during daily tailgate meetings, monthly safety meetings of formal classroom instruction. For administrators and managers, ongoing training will also include outside technical seminars or training programs on hazardous waste management and emergency response.

## 3.0 TRAINER CREDENTIALS

Program administrator for each location identified below directs SET Environmental's training program.

LOCATION	PLAN ADMINISTRATOR
Houston	Daniel A. Didier
Dallas	Tad Defrange
Wheeling	Steve Pavlovich
Bridgeview	Mike Ortiz

In order to maximize training efficiency and effectiveness, SET Environmental personnel or off-site training organizations may present actual classroom instruction.

Trainers shall have satisfactorily completed a training course for teaching the subjects they are expected to teach or they shall have the training and/or academic credentials and instructional experience necessary to demonstrate competent instructional skills and a good command of the subject matter of the courses they are to teach. SET will choose trainers that have obtained a high level of expertise either through education and/or experience.

No one individual can provide expertise in every area. Therefore SET's will utilize the talents of several employees throughout the organization, including but not limited to:

- Compliance Director
- Safety Officer
- O General Manager
- Chemical Engineer
- O Department Heads
- Project and Area Manager
- O Supervisor
- Chemists

#### 4.0 JOB DESCRIPTIONS

As an environmental management company virtually all SET employees (with the exception of certain administrative staff) perform or have the potential to perform tasks that involve handling hazardous waste, substances and/or materials. SET Environmental requires all employees to be involved in the degree of training appropriate to their responsibilities. The following is a description of divisions within the SET organization.

- 1. Administration is concerned primarily with overall division management at the facility with a focus on the regulatory and policy oriented aspects of hazardous waste management at the facility.
- 2. The Environmental Field Services Division provides lab-packing services for; drum surveys and sampling, site remediation, and emergency response for SET Environmental customers.
- 3. The Approval and Permitting Division is responsible for regulatory and technical approval of waste stream profiles and lab pack inventories submitted by customers. Personnel in this division will also profile waste streams and lab packs destined for off-site treatment, disposal, recycling or use.
- 4. The Laboratory Division is responsible for sample prequalification (verification of analytical data provided with waste stream profile and assessment for treatability), load fingerprinting, characterization of materials for off-site disposal and testing required for process monitoring.
- 5. The Transportation Division is responsible for the safe loading, unloading and movement of hazardous and non-hazardous materials from the generator to disposal facility.
- 6. The TSDF Production Division is directly involved in hazardous waste handling at SET's TSDF in Houston. This division is responsible for the processing (fuel blending, neutralization, chlorination, hydrolysis, segregation and consolidation) of hazardous wastes, sampling incoming loads, truck loading and unloading and facility housekeeping and maintenance.
- 7. The Industrial Cleaning Division is primarily involved with site remediation activities.

Each SET location will maintain a list of current employees, with job titles and descriptions (see Figure 4).

## 5.0 TRAINING SUBJECT MATTER

Figure 1 outlines area of instruction by major training topics (e.g., Administration, Safety). Figure E-2 identifies training required by regulatory agencies that applies to activities performed by SET Environmental personnel. Depending on job responsibilities, each employee may not be required to complete every area of instruction under the major training topic. With respect to the Topic entitled "Hazardous Waste And Emergency Response" Training shall be based on the duties and function to be performed by each employee as detailed below.

## 5.1 First Responder Awareness Level

These are employees who are likely to witness or discover a hazardous substance release and have been trained to initiate an emergency response sequence by notifying proper company officials or proper authorities of the release (e.g., maintenance worker or security guard). To this end training will focus on recognizing, identify and understanding the hazards associated with hazardous substances when released. In the event of a hazardous substance release, the employee will have received training that enables them to notify appropriate company employees and/or out side entities. Employees trained at the first responder awareness level would not take part in further emergency response activities. The length of training will be sufficient to train the employee to perform these functions.

## 5.2 First Responder Operations Level

These employees would respond to releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Their primary objective will be to contain the release from a safe distance, keep it from spreading, and prevent exposures without actually trying to stop the release. These employees will receive training equivalent to that provided to the first responder awareness level employee. In addition the first responder operations level employee will be trained to understand the following:

- Basic hazard and risk assessment techniques.
- Selection and use proper PPE.
- An understanding of basic hazardous materials terms.
- Perform basic control, containment operations.
- Implementation of basic decontamination procedures.
- Standard operating and termination procedures.

The length of training is a minimum of 8 hours.

#### 5.3 Hazardous Materials Technician

These are employees that respond to releases for the purpose of stopping the release. Hazardous materials technicians will be provided with a minimum of 24 hours of training equal to the first responder operations level and have understand the following:

- Implementation of SET's emergency response plan.
- Classification, identification and verification of known and unknown materials by using field survey instruments and equipment.
- Be able to function within an assigned role in the Incident Command System.
- Selection and use proper specialized chemical personal protective equipment.

- Hazard and risk assessment techniques.
- Perform advance control, containment operations.
- Decontamination procedures.
- Termination procedures.
- Basic chemical and toxicological terminology and behavior.

#### 5.4 Hazardous Materials Specialist

These employees respond with and provide support to hazardous materials technicians. Their duties are similar to the hazardous materials technician, however, will have a higher level of knowledge of the substance. The specialist may also act as the site liaison with Federal, state, local and other government authorities when authorized for that role by the incident commander. Hazardous materials specialists will receive a minimum of 24 hours of training equal to the technician level and understand the following areas:

- Implementation of the local emergency response plan.
- Classification, identification and verification of known and unknown materials by using advanced survey instruments and equipment.
- State emergency response plan.
- Selection and use proper specialized chemical personal protective equipment.
- In-depth hazard and risk techniques.
- Perform specialized control, and containment operations.
- Decontamination procedures.
- Develop a site safety and control plan.
- Chemical, radiological and toxicological terminology and behavior.

## 5.5 On Scene Incident Commander

This individual will assume control of the incident scene beyond the first responder awareness level and will receive at least 24 hours of training equal to the first responder operations level and in addition have understand the following areas:

- Implemention of SET's incident command system.
- Implementation of SET's emergency response plan.
- Hazards and risks associated with employees working in chemical protective clothing.
- Implementation of local emergency response plan.
- The state emergency response plan and knowledge of the Federal Regional Response Team.
- Importance of decontamination procedures.

#### 5.6 Certification of Training

SET will certify that training has been successfully completed. This certification will include the employees name, level/position of training (e.g., technician, specialist), number of hours completed, and the date of completion.

#### 6.0 RECORD KEEPING

Records documenting the job title for each position, job descriptions, names of employees, and completed training will be kept at the SET Environmental office. These records and other documents verifying training will be kept for all current employees and for three years from the date of the individual employee's termination.

## FIGURE 1

#### SET TRAINING OUTLINE

#### ADMINISTRATIVE

- Internal Policies
- Internal Forms and Recordkeeping

## SAFETY TOPICS

Workplace Hazards and Safety

- Bloodborne Pathogens
- Chemical and Physical Hazards
- Confined Space Entry
- Control of Hazardous Energy (Lockout/Tagout)
- Electrical Safety
- Fall Protection
- First Aid and CPR
- Hazard Communication
- Hazardous Waste Operations and Emergency Response
- Introduction to Toxicology
- Occupational Exposure to Hazardous Chemicals in Laboratories
- Portable Fire Extinguishers
- Scafolding
- Trenching and Shoreing
- Welding Cutting and Hotwork

Personnel Protective Equipment

- Respiratory Protection Program
- Personnel Protective Equipment

Contingency Plan and Emergency Procedures

- Emergency Procedures
- Emergency Equipment
- Emergency Systems
- Procedures for using, inspection, repairing and replacing facility emergency and monitoring equipment.
- Key parameters for manual waste feed cutoff systems.
- Communications and alarm systems
- Response to fires or explosions
- Shutdown of operations

#### TECHNICAL TOPICS

Hazardous Waste Chemistry

Sampling Techniques

#### **REGULATORY TOPICS**

Hazardous Waste and Materials Management<sup>3</sup>

- Waste Classification (RCRA)
- Hazardous Substance Determination and Reporting Requirements (CERCLA)
- Hazardous Materials Classification (DOT)
- Shipping Descriptions
- Packaging
- Container Marking
- Container Labeling
- Hazardous Materials Segregation
- Manifest System
- Land Disposal Restriction Regulations
- Placarding for Highway Transportation

## **OPERATIONAL TOPICS**

<u>Equipment</u>

- Drum Movement/Operating Equipment (Forklift Operation)
- Equipment and Capabilities

#### Record Keeping and RCRA Requirements

- Waste Inventory System
- Operating Record System
- Inspection Procedures
- Waste Analysis

#### Standard Operating Procedures

- Shipping and Receiving
- Organic Liquids Processing
- Waste Consolidation
- Chemical Treatment (Neutralization, Re-Dox, Hydrolysis)
- Lab Pack Operations
- Laboratory Operations

FIGURE 2 GOVERNMENTAL TRAINING REQUIREMENT SUMMARY

DESCRIPTION		GULATORY SITE	INITIAL	ANNUAL REVIEW	OTHER REVIEW	CERTIFICATION REQUIRED <sup>1</sup>
					FREQUENCY	
	CFR	Paragraph	(Hours)	(Hours)	(See foot notes)	(Yes, No)
Emergency Action Plans	29	1910.38(e)&(f)	Х		2	Ν
Hearing Conservation	29	1910.95(k)	Х	Х		Ν
Hazwoper Uncontrolled Waste Sites	29	1910.120(e)	40	8		Y
Hazwoper TSDF Operations	29	1910.120(p)(7)	24	8		Y
Hazwoper ER First Responder Awareness Level	29	1910.120(q)(6)(i)	Х			Ν
Hazwoper ER First Responder Operations Level	29	1910.120(q)(6)(ii)	8	Х		Y
Hazwoper ER Hazardous Materials Technician	29	1910.120(q)(6)(iii)	24	Х		Y
Hazwoper ER Hazardous Materials Specialist	29	1910.120(q)(6)(iv)	24	Х		Y
Hazwoper ER On Scene Incident Commander	29	1910.120(q)(6)(v)	24	Х		Y
Personal Protective Equipment (Eye, Head and Hand)	29	1910.132(f)	Х		3	Y
Respiratory Protection	29	1910.134(k)	Х	Х	3	Ν
Confined Space Entry	29	1910.146(g)	Х		3	Y
Confined Space Entry Rescue Training with CPR and First Aid	29	1910.146(k)(2)	Х	Х		Ν
First Aid and CPR	29	1910.146(k)(2)	Х	Х	3	Y
Control of Hazardous Energy (Lockout/Tagout)	29	1910.147(c)(7)	Х		3	Y
Portable Fire Extinguishers	29	1910.157(g)	Х	Х		Ν
Powered Industrial Trucks (e.g., Forklifts)	29	1910.178(l)	Х		4	Y
Welding Cutting and Hotwork	29	1910.253	Х			N
Electrical Safety	29	1910.332(b)	Х		3	N
Asbestos Abatement	29	1910.1001	Х	Х		N
Bloodborne Pathogens	29	1910.1030(g)(2)	Х	Х		N
Hazard Communication	29	1910.1200(h)	Х		5	N
Occupational Exposures to Hazardous Chemicals in Laboratories	29	1910.1450(f)	Х		5	Ν
Scafolding	29	1926.454	Х		3	Ν
Fall Protection	29	1926.503	Х		3	Y
Trenching and Shoreing	29	1926.651	Х			N
Contingency Plan and Emergency Preparedness (RCRA)	40	265.16	Х	Х		Ν
Hazardous Materials (DOT)	49	172.700	Х		4	Y

- Although a specific certification may not be required by the standard, SET must document training and demonstrate that the employee understands the material covered. Most of these standards specify areas of training that must be covered and understood.
- 2 When the plan or the employees responsibilities under the plan change.
- 3 Recurrent training is required when changes in the workplace or safety procedures render previous training obsolete; or an employees use or knowledge of the safety procedures are inadequate.
- 4 Recurrent training is required every three (3) years.
- 5 Recurrent training is required when a new physical or health hazard is introduced into the employees work area that they have not previously received training on.
- X Initial and/or recurrent training is required; however, the number of hours is not mandated by law.

#### FIGURE 3 HOUSTON CURRENT EMPLOYEES, DIVISION, and JOB TITLES

Available upon request.

#### FIGURE 4 JOB DESCRIPTIONS

Available upon request.



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#### GAS CYLINDER PROFILE

	U.S. EPA I.D. NO. TXD055	135388			OTEINDEN	1 110			TWC Per	mit No. H	W-50267
z	GENERATOR NAME: MAILING ADDRESS:				SITE	ADD	RESS:				
INFORMATION	CONTACT: PHONE:	)									
				TWC REG. N	NO						
ENERAL			8 0								
GEN	BROKER NAME: BILLING ADDRESS:				CON		()	·····	· · · · · · · · · · · · · · · · · · ·		
	SPECIFIC HAZARDS POISONOUS GAS; HAZ ZONE FLAMMABLE GAS INON FLA PYROPHORIC WATER REA POISON LIQUID CORROSIN FLAMMABLE LIQUID (, OTHE	AMMABLE GA CTIVE □, OXI VE LIQUID □	S 🗌		HECK ALL THAT SICAL STATE QUIFIED COMPRE OMPRESSED GAS ON-PRESSURIZED	ESSED	GAS	PROCES	ED		
	COMPONENTS/PERCENT		ODT HAZARD CLASS	OF CYLINDERS	SIZE DIAM. X LENGTH (INCHES)	6	CYLINDER DENTIFICATION NUMBER(S)	DRUM     OR BOX NO     (If Applicable)	TRT CODE	UNIT PRICE	UNIT ACCRUAL
Σ											
QUANTITY											
N AI											
<b>RIPTION AND</b>											
DESCR											
Ö											
S	GENERATOR: I hereby certify that i p-dibenzodioxon (dioxon) or bidenzi hazards have been disclosed. I und or unapproved containers may resu	ofurans I furthe lerstand that I a	r certify that m responsible	all information e for the repre	submitted in this an sentation of every co	d all att Intainer	ached documents is of waste material ar	complete and ac nd that any misre	curate, and tha	t ali known c	or suspected
NOL	SIGNATURE:					TITLE	: 	DATE:			
ICAI	Printed Name:										
CERTIFICATIONS	PACKAGING AGENT: I certify that of the waste has been disclosed or	n the attached i	inventories.								
0	SIGNATURE:					TITLE	:	DATE:			

Copy distribution: white-T1; yellow-generator

Printed Name: \_\_\_\_\_



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#### GAS CYLINDER PROFILE CONTINUATION SHEET

Approval No \_\_\_\_\_ -\_\_

Page \_\_\_\_\_ of \_\_\_\_

U.S. EPA I.D. NO. TXD055135388

TWC Permit No. HW-50267

0	10 EPA	O DOT	Ø NO	SIZE	CYLINDER	Ø DRUM OR BOX NO	<b>T1</b>	USE ONLY	
COMPONENTS/PERCENT	EPA WASTE NUMBER	ODT HAZARD CLASS	NO OF CYLINDERS	SIZE DIAM. X LENGTH (INCHES)	CYLINDER IDENTIFICATION NUMBER(S)	OR BOX NO (If Applicable)	TRT CODE	UNIT UNIT PRICE ACCRU	t UAL
					· 	<u> </u>			
									_
									_

GENERATOR: I hereby certify that the items described in this summary and attached inventories are not radioactive, pathogenic or infectious and do not contain 2, 3, 7, 8-tetrachloro-p-dibenzodioxon (dioxon) or bidenzofurans. I further certify that all information submitted in this and all attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. I understand that I am responsible for the representation of every container of waste material and that any misrepresented unidentified off-specification or unapproved containers may result in drum rejection additional charges being assessed and/or materials being returned to generator.

SIGNATURE: \_\_\_\_\_\_ DATE: \_\_\_\_\_ DATE: \_\_\_\_\_

DESCRIPTION AND QUANTITY

PACKAGING AGENT: I certify that all materials have been packaged in accordance with 49 CFR 173 25 I certify that any and all information necessary for specific representation of the waste has been disclosed on the attached inventories

Printed Name: ....

SIGNATURE: \_\_\_\_\_

\_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

#### SET Environmental, Inc. 5743 Cheswood Street - Houston, IX 77087

Cylinder ID Number(s):

. .....

645-8710 // 800-598-7328 // Fax: 713-649-1027	
	Total Number Cylinders Exactly Matching this Report:
COMPRESSED GAS C	YLINDER INSPECTION REPORT
SENERAL INFORMATION	
GENERATOR:	BROKER NAME:
EPA CODE(S):	TEXAS WASTE CODE:
CONTENTS	SHIPMENT MODE
(enter gas name here)	Boxes Drums Delletize
	Analysis (Please Attach)  Other (Specify)
CYLINDER INFORMATION:	
DIMENSIONS (Inches): X	WEIGHT (Pounds): , ,
Length (not including valve) Diameter	r Gross Tare Net
	CONDITION CYLINDER COMMENTS
Lecture <3" x <12" Small <4" x <24" Excellen	
☐ Medium <10" x <36" ☐ Large <16' x <54" ☐ Poor	Questionable
PHYSICAL STATE	
Liquified Compressed Gas Compressed Gas Non-Press	surized Liquid Yes No Present: Yes No Removable: Yes No
DOT/ICC Spec:	Last Hydrostatic Test Date:
DOT/ICC Spec: COLORS:	
VALVE INFORMATION:	
EXTERNAL CONDITION WORKING CON	VALVE COMMENTS
Poor     Questionable     Good     Good	No 🗍 Unknown
Pressure Relief: Yes No Location: On Valve	On Cylinder <b>Type:</b> Plug Disk Spring Loaded
CGA OUTLET NUMBER(If known):	
SHIPPING INFORMATION:	
DOT SHIPPING DESCRIPTION:	
·····	
HAZARD CLASS: UN/	
Poison Inhalation: Yes INo	<b>ZONE:</b> 🗋 A, 🗍 B, 🗋 C, 🗌 D
NOTE: GASES WITH CLASS 2.3 MUST HAV	VE A VALVE OUTLET PLUG OR CAP.
· · · · · · · · · · · · · · · · · · ·	
pection Completed by:	Date:



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#### LAB PACK SUMMARY

U.S. EPA I.D. NO. TXD055135388	<u> </u>	TWC Permit No. HW-50267
GENERATOR NAME:		
MAILING ADDRESS:	SITE ADDRESS:	
		<u></u>
PHONE: ()	FAX: (	)
U.S. EPA TWC I.D. NO REG.	NO	
BROKER NAME:	CONTACT:	
BILLING ADDRESS:		
TREATMENT CONTAINER CONTAINER CODE SIZE ID NUMBER		E ONLY TOTAL NO. OF CONTAINERS
001 – Lab packs of old chemicals only H – Ha:	ed below) and end with the classification es the contents of the container in the sa h time you ship a particular form of lab nd submitted to the TNRCC In this situat <b>IFICATION CODES</b> zardous per RCRA ss 1 (nonhazardous)	code (described below). If the generating facility is me manner as described above except you should back. If this will be the only time lab packs will be ion the TNRCC will assign the Texas Waste Code
Comments:		
GENERATOR: I hereby certify that the items described in this summary and a p-dibenzodioxon (dioxon) or bidenzofurans I further certify that all information hazards have been disclosed. I understand that I am responsible for the represor unapproved containers may result in drum rejection additional charges be	n submitted in this and all attached documents esentation of every container of waste material	s complete and accurate, and that all known or suspected and that any misrepresented unidentified off-specification
SIGNATURE:	TITLE:	DATE:
Printed Name:		
PACKAGING AGENT: I certify that all materials have been packaged in according of the waste has been disclosed on the attached inventories	ordance with 49 CFR 173 25.1 certify that any	and all information necessary for specific representation
SIGNATURE:	TITLE:	DATE:

Copy distribution: white-T1; yellow-generator

Printed Name: \_\_\_\_\_

Page of	CONTAINER NO: PROFILE NO: MANIFEST NO: PACKED BY: PACKED BY: DATE PACKED: DATE PACKED:	LAND DISPOSAL RESTRICTION NOTIFICATION INFORMATION RCRA SUBCATEGORY F-Solvent or WW WASTE CODE UHC Codes NWW CODE (9) (10) (11) (8) (9) (10) (11)	
LAB PACK INVENTORY	CON PROI	SUB. HAZARD CLASS (6) (6) (7) (1)	
27	CONTAINER SIZE: CONTAINER TYPE: PACKING MEDIUM:	etts and L CLASS G (4) (5) (5) (4) (5)	
<b>SET Environmental, Inc.</b> 5738 Cheswood • Houston, Texas 77087 (713) 645-8710 • (800) 598-7328 • Fax (713) 649-1027 visit our website: www.setenv.com	ls:	DESCRIPTION: All thems must be 100% identified with all components and concentrations listed (2)	
	GENERATOR: DOT SHIPPING DESCRIPTION: PRIMARY DOT HAZARD CLASS: DOT IDENTIFICATION NUMBER: DOT ADDITIONAL DESCRIPTORS: DOT LABELS		

Copy Distribution: white – SET Environmental; yellow – generator; pink – manifest; goldenrod – drum

Revised June, 2004 Form #: TO-018

# SET Environmental, Inc.

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Fax: 713-649-1027

rax: /15-049

www.setenv.com

TNRCC Permit No. HW-50267 EPA ID No. TXD055135388

	۷	VASTESTREAM	/I PR	OFILE			
Treatment One Use Only							
Approval No : Treatment/Handling Co				ode:		_	
Sales Rep:		Dis	oosal Acc			-	
			Pri	cing:			
<b>I. GENERATOR INFOR</b>	MAT	ION					
Generator				Broker Nam	e		
				Contac	t		
Telephone				Telephon			
Fax Mailing Address				Failing Address			
City State Zin			ľ	Mailing Address City, State Zij			
Site Address				ong, outo En	*		
City, State Zip							
U S. EPA ID No:		Texas Generator ID No					
II. GENERAL WASTEI	NEO	RMATION	<u> </u>				
Wastestream Name:	<u>2002000000000000000000000000000000000</u>						
wastestieani waine.			-	_		. 🗌 Tot	
		- CONTAINER TYPE	-	Drum [	🗋 Gallons 📋 Poul	nds 🗋 Cu	Yard
🗋 One Time 🛛 Yearly		🗌 Metal 🗌 Wood		- CONTAINER SIZE			
Monthly Quarterly				<del></del>	Gal		Gal Cu Yd
Other		🗌 Poly 🗌 Fiber			Gal		Tote
				·····			]
III. SPECIFIC HAZARD	S Ple	ase identify all that apply.					
Explosive 🗆 Yes	🗆 No	Organic Peroxide	🗌 Yes	🗌 No	Polymerizer	🗌 Yes 🛛	🗌 No
	□ No	Poison	🗌 Yes	No No	PCB >1 ppm	🗌 Yes 🛛	🗆 No
Compressed Gas 📋 Yes Flammable 📋 Yes	□ No □ No	Infectious Carcinogen	🗌 Yes 🗋 Yes	□ No □ No			
		Radioactive	Yes				
Water Reactive 🛛 Yes	🔲 No	Corrosive	🗌 Yes	No No			
Oxidizer 🗌 Yes	🗌 No	Dioxin or Suspect	🗌 Yes	🗆 No			
IV. PROCESS							
Describe the process generating the was	ste, incl	uding raw materials and fina	I product	ί 🗆 ι	Inused (Attach MSDS)		
				D.	Jsed/Spent (Attach lab	oratory analysis)	)
							1
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					10		

Average %	فتستشفينا والواد بهيونيا الارمسا بهيدكرن وابتداعتها فتخالبا فاختلف فتعاد فتخرج الالاست	nge
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	FF	M
	] No	M
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<ul> <li>☐ Yes</li> </ul>	No	M
□ Yes       □	No	M
☐ Yes       [	No	M
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☐ Yes       [	No	M
☐ Yes       [         ☐ Yes       [	No	M
☐ Yes       [         ☐ Yes       [	No	M
☐ Yes       [         ☐ Yes       [	No	
☐ Yes       [         ☐ Yes       [	No	
☐ Yes       [         ☐ Yes       [	No	
☐ Yes       [         ☐ Yes       [	No         Range         Range         Range	
☐ Yes       [         ☐ Yes       [	No	
☐ Yes       [         ☐ Yes       [	No         Range         Range         Range	

# VII. REGULATORY INFORMATION

Texas Waste Code		
Is the hazardous waste determination based on the generator's detailed knowledge of the waste?	🗌 Yes	🗆 No
Is the hazardous waste determination based on the analysis of the waste? If yes, please attach analysis	🗌 Yes	∐ No
Does this waste meet the definition of debris in 40 CFR 268 2(g)?	🗌 Yes	🗆 No
If this is a characteristically hazardous waste (i e, D-Coded), does it contain any underlying hazardous constituents	□ Yes	
as defined in 40 CFR 268 2(i)? If yes, identify each constituent and their percentages in Section V. Waste Composition.		
Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372 65? If yes, list these chemicals, CAS #	□ Yes	🗆 No
and their percentages in Section V. Waste Composition. http://www.epa.gov/tri/chemical/chemlist2001.pdf		
Does this waste contain any of the EHS identified in section 302 of EPCRA? If yes, list these chemicals, CAS #	🗍 Yes	□ No
and their percentages in Section V. Waste Composition. <u>http://www.epa.gov/swercepp/ehs/ehsalpha.html</u>		
Is this waste regulated under the National Emissions Standard for Benzene Waste Operations (40 CFR Part 61 Subpart FF)?	🗌 Yes	🔲 No
Does this waste meet the definition of a wastewater (40 CFR 268 2 (f))?	🗌 Yes	🗌 No
Is this waste being shipped in DOT specification packages authorized for the material they contain?	🗌 Yes	🗌 No

EPA Hazardous Waste No	Subcategory	EPA Hazardous Waste No.	Subcategory
	·		
	· · · · · · · · · · · · · · · · · · ·		

Shipping Name		Additional Descripto	NTS	
Technical Names				
Hazard Class	UN/NA Number	Packing Grou	up RC	2
I hereby certify that the infor composition or properties ex	ATOR'S CERTIFICATIO rmation identified above and attached to this profile i kist and that all known or suspected hazards have b US DOT and State regulations	is complete and accurate to the best of my know		
	GENERATOR'S NAME	- :	TITLE	_
	SIGNATURE	<b></b>	DATE	-

**SET Environmental, Inc.** 5738 Cheswood Street - Houston, TX 77087

713-645-8710 // 800-598-7328 // Fax: 713-649-1027

PAGE: 1 of

#### NOTIFICATION FOR WASTE RESTRICTED FROM LAND DISPOSAL

#### I. GENERAL INFORMATION

GENERATOR

MAILING ADDRESS CITY, STATE ZIP U.S. EPA ID No:

State Manifest Document Number:

Manifest Document Number:

#### II. LAND DISPOSAL RESTRICTION TABLE

Approval Number	RCRA Waste Code	Subcategory Codes (From Table I)	F-Solvent (Table II) or UHC Codes (Table III)	Treatability Group (WW) or (NWW)

#### III. CERTIFICATION

I am supplying this notification to SET Environmental, Inc. in accordance with the provisions of 40 CFR 268.7. I have determined that the material described above is restricted from land disposal and must be treated to conformance with the treatment standards specified in 40 CFR 268.40 and 268.48.

I hereby certify that all information supplied above is complete and accurate to the best of my knowledge and ability to determine that no omissions or errors exist.

#### SIGNATURE

NAME (Printed or Typed)

TITLE

DATE

	TABLE I - WASTE CODE SUBCATEGORIES							
Code	А	В	С	D	E			
D001	High TOC ignitable characteristic liquids.	All other ignitable characteristic waste.						
D003	Reactive cyanides	Reactive sulfides	Explosives	Water reactives	Other Reactives			
D006	Cadmium containing batteries							
D008	Lead acid batteries							
D009	High Mercury - Organic (Nonwastewaters)	High Mercury - Inorganic (Nonwastewaters)	Low Mercury (Nonwastewaters)	Mercury Containing Wastewaters				
P047	4,6-Dinitro-o-cresol	4,6-Dinitro-o-cresol salts						
P065 & P092	Non-incinerator or non-RMERC residues.	Incinerator or RMERC residues with $\ge$ 260 mg/kg total mercury.	RMERC residues with < 260 mg/kg total mercury.	Incinerator residues with < 260 mg/kg total mercury.	All wastewaters			
U151	High mercury	RMERC residues with < 260 mg/kg total mercury.	Non-RMERC residues with < 260 mg/kg total mercury.	All wastewaters.				
U240	2,4-Dichlorophenoxyacetic acid	2,4-Dichlorophenoxyacetic acid salts and esters.						
F003 & F005	Waste that contain only the F- listed solvents Carbon disulfide, Cyclohexanone and/or Methanol.	Wastes that contain only the F- listed solvent 2-Nitropropane.	Wastes that contain only the F-listed solvent 2- Ethoxyethanol.					

	TABLE II - F CODE SOLVENT CONSTITUENTS								
Code	Code Constituent Code Constituent Code Constituent Code Constituent Code Constituent								Constituent
5	Acetone	11	Cresol (o, m, or p isomers)	17	Ethyl ether	23	Nitrobenzene	29	1,1,2-Trichloro-1,2,2-
6	Benzene	12	Cresylic acid	18	Isobutanol	24	Pyridine		trifluoroethane
7	n-Butyl alcohol	13	Cyclohexanone	19	Methanol	25	Tetrachloroethylene	30	Trichloroethylene
8	Carbon disulfide	14	1,2-Dichlorobenzene	20	Methylene chloride	26	Toluene	31	Trichlorofluoromethane
9	Carbon tetrachloride	15	Ethyl acetate	21	Methyl ethyl ketone	27	1,1,1-Trichloroethane	32	Xylene
10	Chlorobenzene	16	Ethyl benzene	22	Methyl isobutyl ketone	28	1,1,2-Trichloroethane		-

SET Environmental, Inc.

Last Revision: March 1, 1999

#### **TABLE III - UNIVERSAL TREATMENT STANDARDS** (Underlying Hazardous Constituents (UHC)

	•
33	Acenaphthylene
34	Acenaphthene
35	Acetone
36	Acetonitrile
37	Acetophenone
38	2-Acetylaminofluorene
39	Acroleín
40	Acrylamide
41	Acrylonitrile
251	Aldicarb sulfone
42	Aldrin
43	4-Aminobiphenyl
44	Aniline
45	Anthracene
46	Aramite
47	alpha-BHC
48	beta-BHC
49	delta-BHC
50	gamma-BHC (Lindane)
252	Barban
254	Bendiocarb
255	Benomyl
51 52	Benzene Benz(a)anthracono
52 53	Benz(a)anthracene Benzal chloride
53 54	Benzo(b)fluoranthene
55	Benzo(k)fluoranthene
56	Benzo(g,h,i)perylene
57	Benzo(a)pyrene
58	Bromodichloromethane
59	Methyl bromide
60	4-Bromophenyl phenyl ether
61	n-Butanol
62	
63	Butyl benzyl phthalate 2-sec-Butyl-4,6-dinitrophenol
256	Butylate
257	Carbaryl
258	Carbenzadim
260	Carbofuran
259	Carbofuran phenol
64	Carbon disulfide
65	Carbon tetrachloride
261	Carbosulfan
66 67	Chlordane (alpha and gamma isomers)
67 68	p-Chloroaniline Chlorobenzene
68 69	Chlorobenzilate
70	2-Chloro-1,3-butadiene
71	Chlorodibromomethane
72	Chloroethane
73	
74	bis(2-Chloroethoxy)methane bis(2-Chloroethyl)ether
75	Chloroform
76	bis(2-Chloroisopropyl)ether
77	p-Chloro-m-cresol
78	2-Chloroethyl vinyl ether
79	Chloromethane
80	2-Chloronaphthalene
81	2-Chlorophenol
82	3-Chloropropylene
83	Chrysene
84	o-Cresol
85	m-Cresol
86	p-Cresol
262	m-Cumyl methylcarbamate
87	Cyclohexanone
88 89	1,2-Dibromo-3-chloropropane
90	Ethylene dibromide Dibromomethane
91	2,4-Dichlorophenoxyacetic acid
92	o,p'-DDD
93	p,p'-DDD
94	ő,p'-DDE
95	p.p'-DDE
96	o b'-DDT
97	p,p'-DDT
98	p,p'-DDT Dibenzo(a,h)anthracene Dibenz(a,e)pyrene
99	Diberiz(a,c)pyrene
100	m-Dichlorobenzene
101	o-Dichlorobenzene
102	p-Dichlorobenzene
103	Dichlorodifluoromethane
104	1,1-Dichloroethane
105	1,2-Dichloroethane
106	1,1-Dichloroethylene
107	trans-1,2-Dichloroethylene
108	2,4-Dichlorophenol

4.0		
10	)9 2,6-	Dichlorophenol
11	0 12-	Dichloropropane
	1 00	L 2 Dichlerenrenvlene
11	I CIS-	1,3-Dichloropropylene
11	2 1,3-	Dichloropropylene, trans
11	3 Diel	
11		hyl phthalate
11	5 2.4-	Dimethylphenol
11		
	0 Dim	ethyl phthalate -butyl phthalate
11	/ Di-n	-butyl phthalate
11	8 14-	Dinitrobenzene
11	9 4,0-	Dinitro-o-cresol
12	20 2.4-	Dinitrophenol
12		Dinitrotoluene
12		Dinitrotoluene
12	23 Di-n	-octyl phthalate
12		mothylominoazabanzana
		methylaminoazobenzene
12	25 Di-N	l-propylnitrosamine
12	6 1/-	Diovane
		Dioxane
12	27 Dipr	nenylamine
12	8 Dibb	nenýlnitrosamine
12	<u>9</u> <u>1,2</u> -	Diphenylhydrazine
13	30 Disu	Ilfoton
26	S Dith	ioncarbamates
120		
13		osulfan I
13	32 End	osulfan II
13	End	osulfan Sulfate
13	84 End	rin
13	S End	rin Aldehyde
26		
13	36 Ethy	/l acetate
13		l cyanide (Propanenitrile)
		d barrene
13	so einy	lbenzene
13	39 Ethi	lether
14		2-Ethylhexyl) phthalate
14	1 Ethy	Imethacrylate
14	l2 Fthí	rlene oxide
14		iphur
14	4 Fluc	ranthene
14		rene
26	o/ ⊢orr	netanate hydrochloride
14		tachlor
14		
		tachlor epoxide
14	18 Hex	achlorobenzene
14	lg Hex	achlorobutadiene
		achiereovelenentadiene
15		achiolocyclopeniaulene
15	o1 HxC	achlorocyclopentadiene DDs (All hexachlorodibenzo-p-
	diox	ins)
15	20 LVC	DEa (All Havaablaradibaata furana)
15		DFs (All Hexachlorodibenzo-furans)
15	53 Hex	achloroethane
15		
		achloropropylene
15	oo inde	no (1,2,3-c,d) pyrene
15	56 lodo	methane
15		
		utyl alcohol
15	58 Isod	rin
15	59 Isos	afrole
16		
16		nacrylonitrile
16	32 Met	nanol
16		napyrilene
27	'∪ Met	niocarb
27	'1 Met	nomyl
16		loxychiol
16	рэ 3-М	noxychlor ethylcholanthrene
16	6 44-	Methylene-bis-(2-chloroaniline)
16	Z Mot	
16		nylene chloride
16	68 Met	nyl ethyl ketone
16	39 Met	nyl isobutyl ketone
	70 Mot	nyl methoen dete
		nyl methacrylate
17	0 IVICU	nyl mathancultanata
17	'1 Met	I I I I I I I I I I I I I I I I I I I
17	'1 Met	nyl methansulfonate
17	'1 Met '2 Met	nyl parathion
17	'1 Met '2 Met	nyl parathion olcarb
17 17 27 27	71 Metl 72 Metl 72 Mete 73 Mex	nyl parathion
17 17 27 27	71 Metl 72 Metl 72 Mete 73 Mex	nyl parathion Dicarb acarbate
17 17 27 27 27	71 Meti 72 Meti 72 Meti 73 Mex 74 Moli	nyl parathion olcarb acarbate nate
17 17 27 27 27 17	71 Meti 72 Meti 72 Meti 73 Mex 74 Moli 73 Nap	nyl parathion olcarb acarbate nate hthalene
17 17 27 27 27	71 Meti 72 Meti 72 Meti 73 Mex 74 Moli 73 Nap	nyl parathion olcarb acarbate nate hthalene
17 17 27 27 27 17 17	71 Metl 72 Metl 72 Met 73 Mex 74 Moli 73 Nap 74 2-Na	nyl parathion olcarb acarbate nate hthalene aphthylamine
17 17 27 27 27 17 17 17	Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Ni           '4         2-Ni           '5         o-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline
17 17 27 27 27 17 17 17	Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Ni           '4         2-Ni           '5         o-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline
17 17 27 27 27 17 17 17 17	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline
17 17 27 27 27 17 17 17 17	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline obenzene
17 17 27 27 17 17 17 17 17	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '8         5-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline bbenzene tro-o-toluidine
17 27 27 17 17 17 17 17 17	Met         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '6         5-Ni           '7         Nitro           '8         5-Ni           '9         o-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine troohenol
17 17 27 27 17 17 17 17 17	Met         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '6         5-Ni           '7         Nitro           '8         5-Ni           '9         o-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine troohenol
17 27 27 17 17 17 17 17 17 17 17	Met         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '6         5-Ni           '7         Nitro           '8         5-Ni           '9         o-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine troohenol
17 27 27 27 17 17 17 17 17 17 17 17	Met         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '8         5-Ni           '9         o-Ni           '1         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline obenzene tro-otoluidine trophenol trophenol itrosodiethylamine
17 27 27 27 17 17 17 17 17 17 17 17 18 18	Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Ni           '5         o-Ni           '6         p-Ni           '7         Nittre           '8         5-Ni           '9         o-Ni           '9         N-N           '31         N-N           '32         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene troo-toluidine trophenol trophenol trophenol trosodiethylamine itrosodiethylamine
17 27 27 27 17 17 17 17 17 17 17 17	Met           '2         Met           '2         Met           '2         Met           '3         Mex           '4         Moli           '3         Nap           '4         2-Ni           '5         o-Ni           '6         p-Ni           '7         Nittre           '8         5-Ni           '9         o-Ni           '9         N-N           '31         N-N           '32         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline obenzene tro-otoluidine trophenol trophenol itrosodiethylamine
17 17 27 27 17 17 17 17 17 17 17 17 17 17 18 18 18 18	Met         Met           '2         Met           '2         Met           '3         Mex           '3         Map           '3         Nap           '4         2.Na           '5         o-Ni           '7         Nitro           '7         Nitro           '8         5-Ni           '9         o-Ni           '9         N-Ni           '10         N-Ni           '11         N-Ni           '12         N-Ni           '13         N-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine trophenol trophenol trophenol itrosodiethylamine itrosodiethylamine itroso-di-n-butylamine
177 277 277 177 177 177 177 177 177 177	Met         Met           '2         Met           '2         Met           '3         Mex           '3         Map           '3         Nap           '4         2.Na           '5         o-Ni           '7         Nitro           '7         Nitro           '8         5-Ni           '9         o-Ni           '9         N-Ni           '10         N-Ni           '11         N-Ni           '12         N-Ni           '13         N-Ni	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine trophenol trophenol trophenol itrosodiethylamine itrosodiethylamine itroso-di-n-butylamine
177 277 277 177 177 177 177 177 177 177	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '3         Map           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '8         5-Ni           '90         p-Ni           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N           '16         N-N           '17         Nitro           '18         N-N           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline obenzene tro-o-toluidine trophenol trophenol itrosodiethylamine itrosodimethylamine itrosodimethylamine itrosomethylethylamine itrosomorpholine
177 277 277 177 177 177 177 177 177 177	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '3         Map           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '8         5-Ni           '90         p-Ni           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N           '16         N-N           '17         Nitro           '18         N-N           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline obenzene tro-o-toluidine trophenol trophenol itrosodiethylamine itrosodimethylamine itrosodimethylamine itrosomethylethylamine itrosomorpholine
177 277 277 177 177 177 177 177 177 177	Met         Met           '2         Met           '2         Met           '2         Met           '3         Mex           '3         Map           '4         2-Na           '5         o-Ni           '6         p-Ni           '7         Nitro           '8         5-Ni           '90         p-Ni           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N           '16         N-N           '17         Nitro           '18         N-N           '11         N-N           '12         N-N           '13         N-N           '14         N-N           '15         N-N	nyl parathion olcarb acarbate nate hthalene aphthylamine troaniline troaniline benzene tro-o-toluidine trophenol trophenol trophenol itrosodiethylamine itrosodiethylamine itroso-di-n-butylamine

407	NI Niture e en une li dire e
187	N-Nitrosopyrrolidine
275	Oxamyl
188	Parathion
276	Pebulate
189	PCBs, Total (sum of all PCB isomers, or
	all Aroclors
190	Pentachlorobenzene
191	PeCDDs (All pentachlorodibenzo-p-
-	dioxins)
192	PeCDFs (All Pentachlorodibenzo-
102	furans)
193	Pentachloroethane
194	Pentachoronitrobenzene
195	
	Pentachlorophenol
196	Phenacetin
197	Phenanthrene
198	Phenol
199	Phorate
200	Phthalic acid
201	Phthalic anhydride
279	Physostigmine salicylate
278	Physostigmine
280	Prómecařb
202	Pronamide
281	Propham
282	Propoxur
283	Prosulfocarb
203	Pyrene
204	Pivridine
205	Safrole
206	Silvex
207	2,4,5-Trichlorophenoxyacetic acid
208	1 2 4 5 Totrachlorohonzono
208	1,2,4,5-Tetrachlorobenzene TCDDs (All Tetrachlorodibenzo-p-
209	diovino)
210	dioxins)
	TCDFs (All tetrachlorodibenzo-furans)
211	1,1,1,2-Tetrachloroethane
212	1,1,2,2-Tetrachloroethane
213	Tetrachloroethylene
214	2,3,4,6-Tetrachlorophenol Thiodicarb
284	
285	Thiophanate-methyl
215	Toluene
216	Toxaphene
287	Triallate
217	Tribromomethane
288	2,4,6-Tribromophenol
218	1,2,4-Trichlorobenzene
219	1,1,1-Trichloroethane 1,1,2-Trichloroethane
220	1,1,2-Trichloroethane
221	Trichloroethylene
222	Trichlorofluoromethane
223	2,4,5-Trichlorophenol
224	2.4.6-Trichlorophenol
225	1,2,3-Trichloropropane 1,1,2-Trichloro-1,2,2-trifluoroethane
226	1.1.2-Trichloro-1.2.2-trifluoroethane
289	Triethylamine
227	2,3-tris-(Dibromopropyl) phosphate
290	Vernolate
228	Vinyl chloride
229	Xylene mixed isomers
Inorg	anic Constituents
Ĭ	

230 231 232 233 234 235 236 237 239 240 241 242 244 242 244	Antimony Arsenic Barium Cadmium Chromium [Total] Cyanides (Total) Cyanides (Amenable) Lead Mercury-Nonwastewater from retort Mercury (All others) Nickel Silver Thallium
249	None Apply



# SHIPMENT SCHEDULING REQUEST FORM

Customer Name & Contact Name:			Contact Phone No: Van or Load No:				
							SET to Arrange Transportation?
Generator Name	SITE Address (Street Address, City, State)	Profile No.	Waste Name or Lab Pack/Cylinder No.	No. of Drums	Drum Size	Manifest Number (If Known)	
			Subtotal Of Drums:	0			

Email or Fax this form to Darnell Hodge: 713-649-6022 (fax), 713-641-7557 (direct line) dhodge@setenv.comage \_\_\_\_\_ of \_\_



# SHIPMENT SCHEDULING REQUEST FORM CONTINUATION PAGE

Customer Name & Contact Name:	0						
Transporter:	0				Van or Load No: 0		
Generator Name	SITE Address (Street Address, City, State)	Profile No.	Waste Name or Lab Pack/Cylinder No.	No. of Drums	Drum Size	Manifest Number (If Known)	
		-	Total	0		-	

Email or Fax this form to Darnell Hodge: 713-649-6022 (fax), 713-641-7557 (direct line) dhodge@setenv.copgge of