REDACTED VERSION

2792
TBC Brianad

2792

9586115

EPAHO108000172

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/27/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2792

Expiration Date 5/22/2010

Generator: TBC Brianadd
Address: 235 Fariss St.
Houston, TX 77054

Waste Information

Name of Waste: paint/spray cans
TCEQ Waste Code #: CESQ2092
Container Type: cu yd
Detailed Description of Process Generating Waste:
empty spray cans - a gallon paint can RCRA aerosol spray cans punctured
Color: na **Odor:** na **pH:** na
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

RIP OK

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	TBC BRINADD		
Address:	235 FARRIS		
City, State, Zip:	HOUSTON, TX		
Contact:	ZAC MCKAUGHAN	Title:	
Phone No:	936-483-3662	Fax No:	
24/hr Phone:	281-541-4829		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	CKG SERVICES		
Address:	10707 HONEA EGYPT ROAD		
City, State, Zip:	MONTGOMERY, TX 77316		
Contact:	ZAC MCKAUGHAN	Title:	PRESIDENT
Phone No:	936-483-3662	Fax No:	936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: PAINT/SPRAY CANS
Detailed Description of Process Generating Waste: EMPTY SPRAY CANS – 1 gallon paint can RCRA aerosol spray cans punctured to adversary pressure

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☒ Combination

Color: NA Odor: NA

Specific Gravity (water=1): NA Density: NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ CANS

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 CUBIC YARD Other: ____
Texas State Waste Code No: CESQG2092
Proper U.S. DOT Shipping Name: non haz / non dot
Class: na UN/NA: na PG: na RQ: na

EPAHO108000174

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	NA% 100

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
SPRAY/PAINT CANS	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
NA

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: 0
TCLP Volatiles: 0
TCLP Semi-Volatiles: 0
Reactivity: 0
Corrosivity: 0
Ignitability: 0

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/20/08

Printed Name/Title: ZAC MCKAUGHAN/PRESIDENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rabbin Mangra

Date: 5-22-08 (Approved) Rejected

Approval Number: 2792

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/cubic Yard
$25/dm

2. **Contamination Limits (maximum limit before surcharges apply):**

Reject if containers are not RCRA empty, All containers must be punctured.

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

None

5. **Treatment and Handling Protocol:**

Shred into or dump into class 2 solids box for landfill

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

Na

8. **Management for Product Recovered/Recycled (if applicable);**

Na

2793
Bay Systems North America

2793

EPAHQ108000178

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/23/2008**

Dear **John Orsburneum**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2793

Expiration Date 5/23/2010

Generator: Bay Systems North America
Address: 2400 Spring Stubner
Spring, TX 77383

Waste Information

Name of Waste: non hazardous water based paint sludges
TCEQ Waste Code #: CESQ3192
Container Type:
Detailed Description of Process Generating Waste:
Residual water based paint sludges (unused) from off spec product (old or unusable). These water based apints contain no RCRA 11 metals and no petroleum hydrocarbons.
Color: varies **Odor:** none **pH:** 2-12.5
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

AP OK

DB

CES Environmental Services, Inc.
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: BaySystems North America
Address: 2400 Spring Stubner
City: Spring **State:** TX **Zip:** 77383-1509
Contact: Danny Dove **Title:**
Phone Number: 281-350-9000 **Fax Number:** 281-288-6450
24/hr Phone Number: 281-350-9000
US EPA ID No: TXCESQG
State ID No: CESQG **SIC Code:**

SECTION 2: Billing Information - ☐ **Same as Above**

Company: BaySystems North Am erica
Address: PO Box 1509
City: Spring **State:** TX **Zip:** 77383-1509
Contact: Danny Dove **Title:**
Phone Number: 281-350-9000 **Fax Number:** 281-288-6450

SECTION 3: General Description of the Waste

Name of Waste: Non Hazardous Water Based Paint Sludges
Detailed Description of Process Generating Waste:
Residual water based paint sludges (unused) from off spec product (Old or Unusable). These water based paints contain no RCRA 11 metals and no petroleum hydrocarbons.

Physical State: ☑ **Liquid** ☑ **Sludge** ☐ **Powder**
☑ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.5 **Density:** 8.3-12.5 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ **Single-phase** ☑ **Multi-phase**

Container Type: ☑ **Drum** ☑ **Tote** ☐ **Truck** ☐ **Other (explain)**

Frequency: ☑ **Weekly** ☐ **Monthly** ☐ **Yearly** ☐ **One-Time**
Quantity: 1-100

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: CESQ3192

Proper US DOT Shipping Name: Non-RCRA, Non-DOT Regulated Waste Water Based Paint Sludges

Class: Na **UN/NA:** Na **PG :** Na **RQ:** Na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
Na		<12.5 & >2		0	mg/l	0	mg/l	15-100	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
Na	mg/l	Na	mg/l	Na	mg/l	Na	mg/l	Na	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Non-Hazardous Water Based Paint Sludges (See MSDS)	50 - 100	%
Water	0-50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS Sheets

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	None Present in Products
TCLP Volatiles:	None Present in Products
TCLP Semi-Volatiles:	None Present in Products
Reactivity:	Not Reactive
Corrosivity:	<12.5 PH and >2 PH
Ignitability:	

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] Date: 5/20/2008

Printed Name/Title: John Linell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 5-23-08 ☑ Approved ☐ Rejected
Approval Number: 2793

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Trans -69/hr Plus FSC
Disposal is $155/tote and $50/dm

2. **Contamination Limits (maximum limit before surcharges apply):**

Only if fails PH or Flash

3. **Surcharge Pricing:**

Na

4. **Special Testing Requirements:**

Flash, PH - Material can be 100% solids - test % Solids

5. **Treatment and Handling Protocol:**

Suck the water off the top and send to NPark
Shred all solids into Class 2 solids or sludge tank (Which ever applys depending on wet content)
Do not Waste water treat as biocides and titanium dioxide are present. Do not mix any of this water with any water that will go to the waste water treatment system. Material can be 100% solids.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000184

7. **Tests for Product Recovered/Recycled (if applicable):**

Na

8. **Management for Product Recovered/Recycled (if applicable);**

Na

MATERIAL SAFETY DATA SHEET

BaySystems NorthAmerica

Baysystems North America
Product Safety & Regulatory Affairs
100 Bayer Road
Pittsburgh, PA 15205-9741
USA

TRANSPORTATION EMERGENCY

CALL CHEMTREC:	(800) 424-9300
INTERNATIONAL:	(703) 527-3887

NON-TRANSPORTATION

Bayer Emergency Phone:	(412) 923-1800
Bayer Information Phone:	(800) 662-2927

1. Product and Company Identification

Product Name:	COOLSTAR MC WHITE
Material Number:	81121886
Chemical Family:	Water-based Acrylic Coating

2. Hazards Identification

Emergency Overview

WARNING! Color: White **Form:** liquid **Odor:** Amine.
May cause eye, skin, and respiratory tract irritation. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Contains material which can cause cancer.

Potential Health Effects

Primary Routes of Entry:	Skin Contact, Eye Contact, Ingestion, Inhalation
Medical Conditions Aggravated by Exposure:	Skin disorders, Respiratory disorders, Eye disorders

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation
Acute Inhalation
For Component: Titanium dioxide (Rutile)
May cause mechanical irritation.

For Component: Amorphous Silica
May cause mechanical irritation.

Chronic Inhalation
For Component: Amorphous Silica
Prolonged inhalation of amorphous silica may produce x-ray changes in the lungs without disability.

Skin

EPAHO108000186

Acute Skin
For Component: Titanium dioxide (Rutile)
Not expected to be irritating.

Eye
Acute Eye
For Component: Titanium dioxide (Rutile)
Not expected to be irritating.

For Component: Amorphous Silica
May cause mechanical irritation.

Ingestion
Acute Ingestion
For Component: Titanium dioxide (Rutile)
Not expected to be harmful if swallowed.

Carcinogenicity:
Titanium dioxide (Rutile) **IARC** - Overall evaluation: 2B Possible carcinogen.

3. Composition/Information on Ingredients

Hazardous Components

Weight %	Components	CAS-No.
15 - 25%	Titanium dioxide (Rutile)	13463-67-7
2.4466%	Amorphous Silica	7631-86-9

4. First Aid Measures

Eye Contact
In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact
In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation
If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion
If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5. Fire-Fighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Special Fire Fighting Procedures
Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

EPAHO108000187

Unusual Fire/Explosion Hazards
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. Accidental release measures

Spill and Leak Procedures
Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

7. Handling and Storage

Storage Temperature:

minimum:	1 °C (33.8 °F)
maximum:	49 °C (120.2 °F)

Storage Period
12 Months

Handling/Storage Precautions
Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Further Info on Storage Conditions
None known.

8. Exposure Controls / Personal Protection

Titanium dioxide (Rutile) (13463-67-7)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 10 mg/m3
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
PEL: 15 mg/m3 (Total dust.)
US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Industrial Hygiene/Ventilation Measures
General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

Respiratory Protection
In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection
Permeation resistant gloves.

Eye Protection
splash proof goggles.

EPAHO108000188

Skin and body protection
Wear cloth work clothing including long pants and long-sleeved shirts.

Additional Protective Measures
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

9. Physical and chemical properties

Form:	liquid
Color:	White
Odor:	Amine
Freezing Point:	0 °C (32 °F) similar to water
Boiling Point/Range:	100 °C (212 °F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Lower Explosion Limit:	not applicable
Upper Explosion Limit:	not applicable
Vapor Pressure:	17 mmHg @ 20 °C (68 °F) similar to water
Specific Gravity:	1.50
	1.4

10. Stability and Reactivity

Hazardous Reactions
Hazardous polymerization does not occur.

Stability
Stable

Materials to avoid
None known.

Hazardous decomposition products
By Thermal Decomposition: Acrylic monomers, other potentially toxic fumes

11. Toxicological Information

Toxicity Data for Titanium dioxide (Rutile)
Acute Oral Toxicity
LD50: > 5,000 mg/kg (Rat)

Acute Inhalation Toxicity
LC0: > 6.82 mg/l, dust/particulate, 4 hrs (Rat)

Acute dermal toxicity
LD50: > 5,000 mg/kg (rabbit)

Skin Irritation
rabbit, Exposure Time: 24 hrs, Non-irritating

EPAHO108000189

Eye Irritation
rabbit, Draize, Non-irritating

Sensitization
dermal: non-sensitizer (Guinea pig, Maximization Test)
dermal: non-sensitizer (Human, Patch Test)

Repeated Dose Toxicity
28 Days, inhalation: NOAEL: 35 mg/m3, (Rat)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Drosophila SLRL test: negative (Drosophila melanogaster)

Carcinogenicity
Rat, Male/Female, inhalation,
According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, #No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

Toxicity Data for Aluminum hydroxide
Acute Oral Toxicity
LD50: > 5,000 mg/kg (Rat)

Skin Irritation
rabbit, OECD Test Guideline 404, Non-irritating

Eye Irritation
rabbit, OECD Test Guideline 405, No eye irritation

Repeated Dose Toxicity
28 Days, NOAEL: 14,470 ppm, (rat)

Developmental Toxicity/Teratogenicity
rat, female, oral, NOAEL (teratogenicity): 1,000 mg/kg,
No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested.

Toxicity Data for Amorphous Silica
Acute Oral Toxicity
LD50: > 5,000 mg/kg (Rat)

Acute Inhalation Toxicity
LC50: > 2.2 mg/l, 1 hrs (Rat)

Acute dermal toxicity
LD50: > 5,000 mg/kg (rabbit)

Skin Irritation
rabbit, Non-irritating

Eye Irritation
rabbit, Non-irritating

Sensitization
dermal: non-sensitizer (Guinea pig, Magnusson/Kligmann (Maximization Test))

Repeated Dose Toxicity
90 Days, inhalation: NOAEL: < 0.001 mg/l, (Rat)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Cytogenetic assay: negative (Rat)

Carcinogenicity
Rat, Male/Female, oral, 2 Years, daily
negative

12. Ecological Information

Ecological Data for Titanium dioxide (Rutile)
Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 hrs)

Acute Toxicity to Aquatic Invertebrates
EC0: > 3 mg/l (Water flea (Daphnia magna))

Toxicity to Microorganisms
EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 hrs)
EC0: > 5,000 mg/l, (Escherichia coli)

Ecological Data for Amorphous Silica
Biodegradation
The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulation
Not expected to bio-accumulate.

Acute and Prolonged Toxicity to Fish
LC50: 5,000 mg/l (Zebra fish (Brachydanio rerio), 96 hrs)
Calculated value

Acute Toxicity to Aquatic Invertebrates
EC0: 10,000 mg/l (Water flea (Daphnia magna), 24 hrs)
EC50: 7,600 mg/l (Ceriodaphnia sp, 48 hrs)
Calculated value

Toxicity to Aquatic Plants
EC50: 440 mg/l, End Point: growth (Green algae (Selenastrum capricornutum), 72 hrs)

Toxicity to Microorganisms
EC50: 8,700 mg/l, (Photobacterium phosphoreum, 15 min)

EPAHO108000191

13. Disposal considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

14. Transportation information

Land transport (DOT)
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

15. Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):
Components
None

SARA Section 311/312 Hazard Categories:
Acute Health Hazard, Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):
Components
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:
Components
None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):
Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a

EPAHO108000192

material containing the product or derived from the product, should be classified as a hazardous waste. (40 CFR 261.20-24)

State Right-To-Know Information
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight %	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
15 - 25%	Titanium dioxide (Rutile)	13463-67-7
>=1%	Aluminum hydroxide	21645-51-2
2.4466%	Amorphous Silica	7631-86-9

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight %	Components	CAS-No.
0.1 - 1%	Diuron	330-54-1

California Prop. 65:
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.

Weight %	Components	CAS-No.
0.1 - 1%	Diuron	330-54-1

16. Other Information

NFPA 704M Rating

Health	1
Flammability	1
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health	1*
Flammability	1
Physical Hazard	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
* = Chronic Health Hazard

The method of hazard communication for Baysystems North America is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Baysystems North America as a customer service.

Contact Person:	Product Safety Department
Telephone:	(412) 777-2835
MSDS Number:	000000009517
Version Date:	05/02/2008
Report Version:	1.0

EPAHO108000193

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Baysystems North America. The information in this MSDS relates only to the specific material designated herein. Baysystems North America assumes no legal responsibility for use of or reliance upon the information in this MSDS.

2794
Magna Flow

2794

EPAHO108000195

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/27/2008**

Dear **Victor Sanchez**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2794

Expiration Date 5/27/2010

Generator: Magna Flow
Address: 14915 Eastex Freeway
Humble, TX 77396

Waste Information

Name of Waste: empty drums and totes
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
RCRA empty drums and totes last containing polymer
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JAP
OK

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company: Magna Flow
Address: 14915 Eastex Freeway PO Box 60709
City, State, Zip: Humble TX 77396
Contact: Jerry McCurtain **Title:**
Phone No: 281-448-8585 **Fax No:** 281-397-7195
24/hr Phone:
U.S. EPA I.D. No: TXCESQ
State I.D. CESQG **SIC Code:** NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Magna Flow
Address: 14915 Eastex Freeway PO Box 60709
City, State, Zip: Humble, TX 77396
Contact: **Title:**
Phone No: **Fax No:**

SECTION 3: General Description of the Waste

Name of Waste: Empty Drums and Totes
Detailed Description of Process Generating Waste: RCRA empty drums and totes last containing polymer

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): _____ **Density:** _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal _____ _____ _____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 25 **Other:** _____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Recyclable Drums and Totes
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS/TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Empty Poly Drums	100	%
Empty Poly Totes	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: x
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Jerry McCurtain

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-27-08 Approved Rejected

Approval Number: 2794

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$10.00/drums
$20.00/tote

2. **Contamination Limits (maximum limit before surcharges apply):**

None

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

None

5. **Treatment and Handling Protocol:**

RECYCLE

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

2795 2795
Packless Industries

EPAHO108000203

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2008**

Dear **Don Hull**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2795

Expiration Date 5/27/2010

Generator: Packless Industries
Address: 8401 Imperial Drive
Waco, TX 76702

Waste Information

Name of Waste: Waswater
TCEQ Waste Code #: 70001191
Container Type:
Detailed Description of Process Generating Waste:
Cleaning of copper tubing
Color: brown **Odor:** mild **pH:** 4-10
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JW+JR

CES Environmental Services, Inc.
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 50948
U.S. EPA ID Number: TXD008950461 ISWR Number: 50900

SECTION 1: Generator Information

Company: Packless Industries
Address: 8401 Inperial
City: Waco State: TX Zip: 76702
Contact: Mike McCauly Title: EHS Manager
Phone Number: (254) 666-7700 Fax Number: (254) 666-7893
24/hr Phone Number: (254) 666-7700
US EPA ID No: TXD980876015
State ID No: 66171 SIC Code:

SECTION 2: Billing Information - ☐ Same as Above

Company: Packless Industries
Address: PO Box 20668
City: Waco State: TX Zip: 76702
Contact: Don Hull Title: Purchasing
Phone Number: (254) 666-7700 Fax Number: (254) 666-7893

SECTION 3: General Description of the Waste

Name of Waste: Waste Water
Detailed Description of Process Generating Waste

Cleaning of copper tubing

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: mild

Specific Gravity (water=1): >1 Density: 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☑ Monthly ☐ Yearly ☐ One-Time
Quantity: 5000 gal.

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No
If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No
If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: 70001191-1

Proper US DOT Shipping Name: Non Regulated Material
Class: n/a UN/NA: n/a PG: n/a RQ: n/a

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>200		4-10		0	mg/l	0	mg/l	0	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	mg/l	<10,000	mg/l	.158	mg/l	5.019	mg/l	.573	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	95-100	%
Alkaline Cleaner	0-2	%
Oil	0-2	%
Copper	<50	ppm

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

CES Evaluation # 0408-021

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO
If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☑ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☑ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10. Additional Instructions

If you cannot determine the correct subcategory in Section 9and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/29/08

Printed Name/Title: Mike McCauley

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer:	
Date: 5-27-08	☑ Approved ☐ Rejected
Approval Number:	2795

Total P.005

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Phone: 713-676-1460
Fax: 713-676-1676

April 16, 2008

Mike McCauly
Packless Industries
8401 Imperial Dr
Waco, TX. 76702

Re: Waste Management & Transportation Quote

Dear Mr. McCauly:

Thank you for your interest in CES Environmental Services, Inc. and our waste management and transportation services. Please find below our proposed scope of service and associated pricing for your consideration.

Scope of Service

- CES will provide transportation & product management for Packless waste at an approved disposal facility in accordance with federal, state, and local regulations.
- CES will provide for the profile, waste manifest, labels, and appropriate shipping documents.

Estimated Costs

Description of Service	Price	
Non-Haz Waste Water	$0.15	per gal.
Transportation	$770.00	per load
Fuel Surcharge	31.50%	per trans. Rate

Conditions/Assumptions

- The above pricing is based on time and materials, the customer's invoice will reflect the actual quantities utilized on the project.
- Fuel surcharges will be charged according to the national average diesel price as published by the US Department of Energy. Current fuel surcharge is 31.5% of transportation rate. Disposal pricing includes all applicable state taxes and/or fees associated with the disposal of this waste material. These rates and terms will be effective through December 31, 2008. Prices subject to change with 30 days notice.

It is our sincere hope that you find our proposed scope of service and associated pricing appealing and will consider utilizing the services offered by CES Environmental Service, Inc. If you have any questions or comments or would like to begin service, please feel free to contact me at 713-550-6344.

Sincerely,

Joe Wilson
Account Manager
CES Environmental
(713) 550-6344

CES Environmental Services, Inc.

CONFIDENTIAL **Profit & Loss Sheet** CONFIDENTIAL

Billing/AP Information	
Name:	Packless Industries
Contact:	Mike McCauly
Address:	
	Waco, Tx
Phone:	
Fax:	

Salesperson:	Joe Wilson
Assigned:	Unassigned: x
Folder I.D.#	
Job Contact:	Mike McCauly
Phone:	(254) 666-7700
Fax:	

P.O Required:	Y:	N:		Fuel Surcharge:	Y:	x	N:
City of Houston:	Y:	N:	x	4-hour Minimum:	Y:		N:

Base Oils **Black Oils** **Light Ends** **Glycols** **Emulsion Oils (>70% oil)** **Emulsion Oils (50%-70% oil)**

Job Estimate

Item	Vendor	Profile #	CES Cost	Customer Charge
Waste Water	CES			.15 / gallon
Transportation	CES			$770.00 / load
Fuel Surcharge	CES			~~31.5 % of trans.~~
				current
				Rate

Customer Special Request/Requirement

CONFIDENTIAL

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joe Wilson
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/08/08

From: Miles Root

Lab Memo: 08-057

Subject: **Packless Industries Water Evaluation 0408-021**

A sample of water from Packless Industries, Waco, TX has been tested for potential processing at CES. This waste water stream originates from the cleaning of copper tubing. This stream is high in copper, as would be expected. The water after treatment still contains 5 ppm copper, well above our 2 ppm limit. This would require dilution by mixing with other low metal water for processing. This special handling needs to be taken into account when pricing this stream. The water treats fairly easily and produces an above average amount of solids. This also should be taken into account for pricing. All other parameters look acceptable. A summary of the analytical results is below.

Packless Industries	
Evaluation 0408-21	
pH	8
Solids %	0.1
Phenols, ppm	o
TOC, mg/L	9065
Oil	0
Metals, ppm	
Cd	0.037
Cr	0.345
Cu	5.019
Ni	0.573
Zn	0.158

2796
Citation - Lufkin

2796

EPAHO108000212

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/27/2008**

Dear **Robert Scoggins**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2796

Expiration Date 5/27/2010

Generator: Citation-Lufkin
Address: 1611 N. Raguet
Lufkin, TX 75904-2143

Waste Information

Name of Waste: fluorescent light bulbs
TCEQ Waste Code #: UNIV319H
Container Type: box
Detailed Description of Process Generating Waste:
spent light bulbs
Color: clear, white **Odor:** none **pH:** na
Physical State:
Incompatibilities: HF acid
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

23

SECTION 1: Generator Information

Company:	Citation-Lufkin		
Address:	1611 N. Raguet		
City, State, Zip:	Lufkin, TX 75904-2143		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD008066946		
State I.D.	31246	**SIC Code:**	3322

SECTION 2: Billing Information – ☐ Same as Above

Company:	Citation		
Address:	P.O. Box 3718		
City, State, Zip:	Lufkin		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120

SECTION 3: General Description of the Waste

Name of Waste: Fluorescent Light Bulbs
Detailed Description of Process Generating Waste: Spent Light Bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Clear, White **Odor:** none

Specific Gravity (water=1): .80 **Density:** 6 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ Box

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1-2 **Other:** ____
Texas State Waste Code No: UNIV319H
Proper U.S. DOT Shipping Name: Environmentally hazardous substances, solid, n.o.s., 9, UN 3077, PG-III
Class: 9 **UN/NA:** UN 3077 **PG:** PG-III **RQ:** NA

MAY-23-2008 15:50 TX FNDRY ENV P.12/17
EPAHO108000214

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150 NO	neutral NO	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Fluorescent Light Bulbs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
HF Acid

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Melissa Saulsbury **Date:** 4/29/08

Printed Name/Title: Melissa Saulsbury / Environmental Technician

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [illegible]

Date: 5-27-08 Approved Rejected

Approval Number: 2796

MAY-23-2008 15:50 TX FNDRY ENV P.13/17

EPAHO108000215

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAY-23-2008 15:50 TX FNDRY ENV P.15/17

EPAHO108000217

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

4 foot bulbs $1.25 each includes box
8 foot bulbs $2.50 each includes box
Transportation $70.00/hour plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

none

3. **Surcharge Pricing:**

none

4. **Special Testing Requirements:**

none

5. **Treatment and Handling Protocol:**

Send out for recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

MAY-23-2008 15:50 TX FNDRY ENV P.16/17

EPAHO108000218

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

none

8. **Management for Product Recovered/Recycled (if applicable);**

NA

2797 2797
Energy Transfer - Manville

EPAHO108000220

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2008**

Dear **Robbie Preston**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2797

Expiration Date 5/28/2010

Generator: Energy Transfer - Manville
Address: 1100 Uzzel Rd
Manville, TX 77578

Waste Information

Name of Waste: pipeline filters
TCEQ Waste Code #: CESQ4891
Container Type: r/o box
Detailed Description of Process Generating Waste:
from natural gas pipeline separator filters
Color: varies **Odor:** hydrocarbon **pH:** 7
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JBP
OK

JB

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Energy Transfer - Manvel
Address: 1101 Uzzel Rd
City: Manvel **State:** TX **Zip:** 77578
Contact: David Wigzel **Title:**
Phone Number: 281.652.2241 **Fax Number:**
24/hr Phone Number:
US EPA ID No:
State ID No: CESQG **SIC Code:** na

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Preston Environmental
Address: PO Box 697
City: Denham Springs **State:** LA **Zip:** 70706
Contact: Robbie Preston **Title:**
Phone Number: 22.664.7767 **Fax Number:**

SECTION 3: General Description of the Waste

Name of Waste: Pipeline Filters
Detailed Description of Process Generating Waste:

From natural gas pipeline seperator filters.

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder**
☑ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** hydrocarbon

Specific Gravity (water=1): na **Density:** na lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** ☑ **Other (explain)**

Frequency: ☐ **Weekly** ☐ **Monthly** ☑ **Yearly** ☐ **One-Time**
Quantity: 15 yards

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: CESQ4891

Proper US DOT Shipping Name: Non RCRA Non DOT Regulated Material (Pipeline Filters)

Class: na **UN/NA:** na **PG :** na **RQ:** na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
na		7		<20	mg/l	<20	mg/l	100	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	>1500	mg/l	0	mg/l	0	mg/l	0	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Pipeline seperator filters	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

none std

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. analytical ✓

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] AS AGENT for generator **Date:** 5/27/08

Printed Name/Title: Robert Mersiovsky

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer:	[signature]
Date: 5-28-08	☑ Approved ☐ Rejected
Approval Number:	2797

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$90/ yard

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Shred and recycle

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: Select Environmental
Company: Kobby Mersiovsky
Address: 223 McCarty
City: Houston State: TX Zip: 77029
Phone: 713-882-7240
Fax: 713-672-9425
e-Mail: robbyM@OTPP.COM

Invoice To: SAME
Company: Same
Address:
City: State: Zip:
Phone:
Fax:
PO#: Quote#:

TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 5

LAB LOT #
COC Present? Yes No
Shipment Sealed? Yes No
Samples Sealed? Yes No
Received on Ice? Yes No
Samples Intact? Yes No
Cooler Temp. (°C)
Preservative Shown? Yes No NA
Hold Time OK? Yes No
Res. Cl2 Check OK? Yes No NA
pH Check OK? Yes No NA
COC & Labels Agree? Yes No
Remarks & Additional Analyses

Project Name: Energy Transfer Manvel
Project Location: Manvel, TX
Project No:
Sampler (Print): Kobby Mersiovsky
Sampler (Sign):
Sampler Remarks:

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP VOLATILES	SEMI-VOLS	RCRA 8 METALS	Pyro
[2] Cntr. Type												
Number												
Volume												
[3] Preservative												
62903.01	1) Energy Transfer Manvel	1/22/08 230	SO	G								X
	2)											
	3)											
	4)											
	5)											
	6)											
	7)											
	8)											
	9)											
	10)											

Relinquished By:	Print Name:	Company:	Date:	Time:	Received By:	Print Name:	Company:	Date:	Time:
[signature]	Kobby Mersiovsky	SEPM	2/6/08	1158	[signature]	Julio Almaguer	Environ	020608	1158
Relinquished By:	Print Name:	Company:	Date:	Time:	Received By:	Print Name:	Company:	Date:	Time:
Relinquished By:	Print Name:	Company:	Date:	Time:	Received By:	Print Name:	Company:	Date:	Time:

Matrix Key
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L:Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other

[2] Container Type Key
P:Plastic G:Glass V:VOA Glass O:Other

[3] Preservative Key
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO: 62903.01 1of 1

Customer: **Select Environmental** Sample ID: **Energy Transfer Manvel** Environ ID: **62903.01**
Project ID: **Energy Transfer Manvel** Sampled: **01-22-08 14:30**
Project Loc: **Manvel, TX** Matrix: **Solid** Received: **02-06-08**
Charge/P.O.: Type: **Grab** Reported: **02-18-08**

ANALYTE/ PARAMETER	RESULT	UNITS	REG. LIMIT	DET. LIMIT	TEST METHOD	TEST BY	DATE	TIME
SELF HEATING & PYROPHORIC								
Pyrophoric	Negative	--	--	--	49CFR173.APP.E.3	JK	02-14-08	13:30

Key: REG - Regulatory Limit (User Should Verify)
DET - Detection Limit

John Keller

John Keller, Ph.D
Laboratory Director

2798 2798
Energy Transfer - Vidor

EPAHO108000230

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2008**

Dear **Robbie Preston**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2798

Expiration Date 5/28/2010

Generator: Energy Transfer - Vidor
Address: 4 mi west of Hwy 105 on FM 1131
Vidor, TX 77670

Waste Information

Name of Waste: pipeline filters
TCEQ Waste Code #: CESQ4891
Container Type: roll off
Detailed Description of Process Generating Waste:
from pipeline separator filters (natural gas)
Color: varies **Odor:** hydrocarbon **pH:** 7
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

MC OK

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Energy Transfer - Vidor
Address: 1870 Mykawa / 4 mi W of Hwy 105 on FM 1131
City: Houston/Vidor **State:** TX **Zip:** 77588/77670
Contact: Robbie Mersiovsky **Title:**
Phone Number: **Fax Number:**
24/hr Phone Number:
US EPA ID No: —
State ID No: CE596 **SIC Code:** —

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Preston Environmental
Address: PO Box 697
City: Denham Springs **State:** LA **Zip:** 70706
Contact: Robbie Preston **Title:**
Phone Number: 225-664-7767 **Fax Number:** 225-664-8655

SECTION 3: General Description of the Waste

Name of Waste: Pipeline filters
Detailed Description of Process Generating Waste: filters (natural gas) from pipeline separator

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** hydrocarbon

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain) Roll-off

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time
Quantity: 15 yds

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: CE SQ-4891

Proper US DOT Shipping Name: Non RCRA / Non DOT Regulated Material (Pipeline filters)

Class: N/A **UN/NA:** **PG :** **RQ:**

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	7	~~N/A~~ <20 mg/l	<20 mg/l	100 %
Oil & Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	>1500 mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Pipeline separator filters	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

none

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. analytical none

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO
If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory **: *Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Agent for generator **Date:** 5/27/08

Printed Name/Title: Robert Maciorsky

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer:	
Date: 5-28-08	☑ Approved ☐ Rejected
Approval Number:	2798

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$90/yard

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Shred & recycle

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000236

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

2799 2799
Enterprise Products Operating LP (East storage)

EPAHO108000238

7 E
8-4-09
LAB
T-35

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/30/2008**

Dear **Stephen Craig**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2799

Expiration Date 5/30/2010

Generator: Enterprise Products Operating LP (East Storage)
Address: 316 South Main
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Flare water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water and lightend hydrocarbons from flare
Color: varies **Odor:** hydrocarbon **pH:** 8-11
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GP

The declared flash point is incorrect (>100) ?F ?C; >100F can still be a D001. Should be >140F. 140

DC

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Enterprise Products Operating LP (East Storage)
Address: 316 South Main
City: Mont Belvieu **State:** TX **Zip:** 77580
Contact: Stephen J. Craig **Title:** Environmental Scientists
Phone Number: 281-385-4396 **Fax Number:** 281-385-4532
24/hr Phone Number: 713-320-4591
US EPA ID No: TXD987981560
State ID No: 39257 **SIC Code:**

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Enterprise Products Operating LP
Address: PO BOX 573 (Attn: Rachel Wheaton)
City: Mont Belvieu **State:** Tx **Zip:** 77580
Contact: Rachel Wheaton **Title:**
Phone Number: 281-385-4310 **Fax Number:** 281-385-4532

SECTION 3: General Description of the Waste

Name of Waste: Flare Water
Detailed Description of Process Generating Waste:

water and lightend hydrocarbons from flare

Physical State: ☑ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** hydrocarbon

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ **Single-phase** ☑ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☑ **Truck** ☐ **Other (explain)**

Frequency: ☐ **Weekly** ☐ **Monthly** ☑ **Yearly** ☐ **One-Time**
Quantity: 4

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: Recycle

Proper US DOT Shipping Name: Petroleum distillates, n.o.s. (xylene, toluene)

Class: 3 **UN/NA:** UN1268 **PG :** II **RQ:** na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 F		8-11		NA	mg/l	NA	mg/l	0-10	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	2500	mg/l	0.36	mg/l	0.255	mg/l	1.58	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	60-98	%
Hydrocarbons (xylene, toluene)	2-40	%
Sand/silt	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory **: *Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/22/2008

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-30-08 ☑ Approved ☐ Rejected
Approval Number: 2799

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Recycling - $0.35.gallon; Freight - $70.00/hour

2. Contamination Limit (maximum limit before surchages apply):

Solids: 5%

3. Surcharge Pricing:

Solids: $0.01/gallon/percent greater than 5%

4. Special Testing Requirements:

pH, toc on water phase, chlordtect on oil phase, metals - chromium may be high

5. Treatment and Handling Protocol:

Process this material to the heat tank. This material will need pH adjustment in the heat tank to a pH of less 4.0 and mixing. The material will require heating and mixing in the heat tank. The solids and oils from heat treatment of this material will process from the heat tank as class 2 sludge (the oil rag layer will drop down to the bottom of the tank). The waters separated from the heat tank from treatment of this waste will process to the WWTS. The waste water can be a slight high on chromium and may need some water dilution for WWTS discharge.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

Chlordtect

8. Management for Product Recovered/Recycled (if applicable)

mix with base oils

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Kelli Lofton, Gary Peterson

Date: 05/14/08

From: Miles Root

Lab Memo: 08-078

Subject: **Enterprise Mont Belvieu Evaluations #0508-18 & 19**

Two samples from Enterprise, Mont Belvieu, East Storage, have been evaluated as potential receipts for processing at CES. These are sample evaluations 0508-18 and 19. Both sources can be accepted and treated at CES, one will be easy and the second a bit more challenging.

Evaluation 0508-18 is a fairly good looking water sample. It has a low TOC of 1261 ppm, pH of 9, a flash point greater than 140 deg F, and acceptable metals on the treated water except for chromium, which is a little high. This can be diluted down, depending upon the volume received. This sample also treats easily and has a typical amount of solids formed, that will not be an issue. I do not know the volume of this source, but any volume will not be an issue. We can accept and treat this source without issues.

Evaluation 0508-19 is a difficult sample. It contains 8% solids, has a pH of 11, has an oily rag type layer of approximately 10% on top which contains no real recoverable oil and has a flash point less than 140 deg F. It will need to be received with the proper hazardous codes due to this fact. The rag layer is not oily feeling and appears to be a light hydrocarbon emulsified with particulates. The treated water also shows slightly elevated chromium levels. This stream will need to be heated and acidified to totally remove the oily rag layer, and it will be difficult to do, at best. When heated, the oily rag produces solids that fall out of solution. Acidification produces considerable foaming and causes the oil rag to form a thick paste which will stick to tanks and equipment. A weak caustic solution containing carbonates would foam very similar to this upon acidification. Again, there will be no recoverable oil from this source, but it must be treated as oil to remove the oily rag and oily solids that are present. I do not know the volume of this source, but we should charge accordingly to account for the considerable time and money that will be spent on this stream. Metals on the treated water are acceptable.

A summary of the analytical work on these two samples is found below.

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Enterprise Mont Belvieu		
	0508-18	0508-19
pH	9	11
solids, vol%	0.1	8
TOC, ppm (water phase)	1261	2403
Flash Point, deg F	> 140	<140
Oil, vol	0	10% rag
Treatability	Easy	Difficult
Metals, ppm		
Cd	0.179	0.433
Cr	0.273	0.355
Cu	0.189	0.255
Ni	0.726	1.58
Zn	0.117	0.36

>100

3-11

1 8.34

0-8

water 60-98

hydrocarbons xylene toluene 2-40

Sand silt 0-10

Petroleum distillates, n.o.s. (xylene, toluene)

3 UN 1268 II

Dana Carter

From: Gary Peterson
Sent: Monday, May 19, 2008 3:01 PM
To: Marlin Moser; Dana Carter
Cc: Miles Root; Bo Cumberland
Subject: RE: Enterprise Mont Belvieu Evaluations 0508-19, Waste treatment.

Follow Up Flag: Follow up
Flag Status: Flagged

Stream 0508-19 has several costs associated with acceptance and disposal of the material. The oil/rag layer can be considered to end up a bottom tank sludge. The 8% solids can be considered to end up a bottom tank sludge.

Treatment Scheme: Process this material to the heat tank. This material will need pH adjustment in the heat tank to a pH of less 4.0 and mixing. The material will require heating and mixing in the heat tank. This will separated the rag & solids in the material and cause them to drop to the bottom sludge layer of the tank. The solids and oils from heat treatment of this material will process from the heat tank as class 2 sludge (the oil rag layer will drop down to the bottom of the tank). The waters separated from the heat tank from treatment of this waste will process to the WWTS. The waste water can be a slight high on chromium and may need some water dilution for WWTS discharge.

1. The 8% solids are a cost. (Class 1 solids sludge, $.27/gal)
2. The 10% top rag layer will be a sludge waste from the heat tank at a cost. Oily rag layers like this end up at the bottom of the heat tank. These heat tank bottom sludge's normally end up going to a landfill. (Class 1 solids sludge, $.27/gal)
3. The treatment in the heat tank is a cost (Heat treatment will remove the flash from the water, Heat treatment will separate the rag and solids from the water). ($.02/gal)
4. pH adjustment to the low pH for heat treatment is a cost. ($.02/gal)
5. The waste water acceptance and water treatment is a cost. ($.05/gal - WWTS cost ? estimate, not established)
6. Chromium dilution cost is WWTS. ($.01/gal)

Total cost per gallon based on a 5,000 gallon load not counting transportation, tax, etc. is:

1. $108.00
2. $135.00
3. $100.00
4. $100.00
5. $200.00
6. $50.00
7. Total BASE cost of $693.00 to treat and dispose of 5,000 gallons of this material.
8. **COST PER GALLON not including transportation, tax, excess labor, etc. of the waste material is $00.14.**

The transportation costs, tax costs and any other costs associated with this load would need to be calculated. These costs added to the bottom line $.13/gallon costs would be the cost to dispose of this material. However this compares to $.35/gallon would be either the % revenue or the % loss on disposing of this waste for $.35/gallon.

Is this what you are looking for?

From: Marlin Moser
Sent: Monday, May 19, 2008 1:13 PM

EPAHO108000250

Enterprise 2775

2775

EPAHO108000251

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2008**

Dear **Charlie Markowitz**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2775

Expiration Date 5/9/2010

Generator: Enterprise Products Operating, L.P. [Splitter III)
Address: 316 S. Main
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Flare water
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water and light end hydrocarbons from flare
Color: dark **Odor:** hydrocarbon **pH:** 3-11
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std(hard hat, face shield, gloves, rubber boots)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BRP
OK

Profile# 2775

CES Environmental Services, Inc.
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Enterprise Products Operating (Splitter 3) SWR #39257
Address: 316 S. Main
City: Mont Belvieu State: TX Zip: 77580
Contact: Ed Laszcz Title: Sr. Environmental Manager
Phone Number: 281-385-4200 Fax Number:
24/hr Phone Number: 281-385-4300
US EPA ID No: NA
State ID No: NA SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: Enterprise Products Operation LP
Address: PO Box 573
City: Mont Belvieu State: TX Zip: 77580
Contact: Accounts Payable Title:
Phone Number: 281-385-4200 Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Flare Water
Detailed Description of Process Generating Waste: Water and light end hydrocarbons from flare separator.

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: Hydrocarbon

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☑ Monthly ☐ Yearly ☐ One-Time
Quantity: 5,000 - 10,000 gallons

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: Recycle

Proper US DOT Shipping Name: Petroleum distillates, n.o.s. (xylene, toluene),

Class: 3 UN/NA: UN1268 PG : II RQ:

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>100		3-11		<20	mg/l	<20	mg/l	0-2	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	60-98	%
Hydrocarbons (xylene, toluene)	2-40	%
Sand/Silt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE Required (hard hat, face shield, gloves, rubber boots)

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory*: *Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] Date: 4/30/2008

Printed Name/Title: Ed Laszcz/Sr. Field Environmental Scientist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 5-9-08 ☑ Approved ☐ Rejected
Approval Number: ~~223~~ 2775

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Charge $60/hr for trans + F.S.C.
charge $0.19/gal for Recycling

2. **Contamination Limits (maximum limit before surcharges apply):**

TOC should be less than 10,000 and solids

3. **Surcharge Pricing:**

Standard surcharges Apply

4. **Special Testing Requirements:**

pH, TOC, phenol, flash

5. **Treatment and Handling Protocol:**

Seperate light ends and put with right ends .... treat water with standard methods. May need to go to the heat tank.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

********** -Comm. Journal- ********** Date MAY-09-2008 ***** Time 12:01 ********

Mode = Memory Transmission Start=MAY-09 11:45 End=MAY-09 12:01

File No.=800

STN No.	Comm.	Key Name	Station Name/Email Address/Telephone No.	Pages	Duration
001	717	[ces001]	ces001	000/006	00:00:05
002	OK		2812956999	006/006	00:01:05

-CES ENVIROMENTAL -

***** DP-C264 ********** - - ***** - 7137488664- *********

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Fax

To: Jeremy Glasgow

Fax: 281-295-6999 Pages: 6 w/ cover

Re: Date:5/9/08

Groth Corp 2776
2776

EPAHO108000260

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/12/2008**

Dear **Joe Lee**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2776

Expiration Date 5/9/2010

Generator: Groth Corp.
Address: 13650 N. Prominade
Stafford, TX 77477

Waste Information

Name of Waste: Spent coolant and water
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
used to cool down machinery
Color: blue **Odor:** weak **pH:** 9.8
Physical State:
Incompatibilities: oxidizers and strong acids
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DM

OK

Need customer signat

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Groth Corp.
Address: 13650 N. Prominade
City: Stafford State: TX Zip: 77477
Contact: Jeremy Glasgow Title:
Phone Number: 281-295-6872 Fax Number: 281-295-6999
24/hr Phone Number:
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: na

SECTION 2: Billing Information - ☑ **Same as Above**

Company:
Address:
City: State: Zip:
Contact: Title:
Phone Number: Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Spent coolant & water
Detailed Description of Process Generating Waste: used to cool down machinery

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: blue Odor: weak

Specific Gravity (water=1): 1.01 Density: 8-9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☑ Monthly ☐ Yearly ☐ One-Time
Quantity: 4-8 drms

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☒ No
If "Yes", then please fill out the UHC Form

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: Recycle

Proper US DOT Shipping Name: Recyclable - Coolant & Water mixture
Class: na UN/NA: na PG: na RQ: na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200°F	9.8	0 mg/l	0 mg/l	0-5 %
Oil & Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
N/A mg/l	NA mg/l	NA mg/l	NA mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
water	80-90	%
coolant (EPF 3310)	10-20	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

oxidizers & strong acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 5-9-8

Printed Name/Title: Jeremy G. Glasgow

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 5-9-08 ☒ Approved ☐ Rejected
Approval Number:

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO
If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☒ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory*: *Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- [ ] Metals Subcategory
- [x] Oils Subcategory
- [ ] Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$65/dm plus 69/hr and FSC

2. Contamination Limit (maximum limit before surchages apply):

Above limits on metals

3. Surcharge Pricing:

None

4. Special Testing Requirements:

Test RCRA Mentals only- Newpark forward - after Glycols are recovered
Waste Water Treat if Possible
Recycle Glycol

5. Treatment and Handling Protocol:

Forward Load to Newpark

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

Na

8. Management for Product Recovered/Recycled (if applicable)

Na

MATERIALS SAFETY DATA SHEET

PRECISION FLUIDS
TOTAL FLUIDS MANAGEMENT

SECTION I

PRODUCT NAME OR NUMBER(*AS IT APPEARS ON LABEL*) **EPF 3310 -**	
MANUFACTURER'S NAME **Precision Fluids, INC.**	EMERGENCY TELEPHONE NO. **(713) 896-0606**
ADDRESS (*NUMBER, STREET, CITY, STATE, & ZIP CODE*) **5230 Brittmoore Houston, TX 77041**	MANUFACTURER'S D-U-N-S NO. **005347778**
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) **METAL WORKING FLUID CONCENTRATE**	
ADDITIONAL HAZARD CLASSES(*AS APPLICABLE*) **NON-HAZARDOUS – NOT REGULATED BY D.O.T.**	
CHEMICAL FAMILY **WATER BASE LUBRICANT**	FORMULA **MIXTURE**

SECTION II – INGREDIENTS
(LIST ALL INGREDIENTS)

CAS REGISTRY NO.	% W	% V	CHEMICAL NAME(S)	LISTED AS A CARCINOGEN IN NTP,(ARC OR OSHA 1910(Z) (SPECIFY)
			*** NONE CONSIDERED HAZARDOUS ***	

SECTION III – PHYSICAL DATA

BOILING POINT **212** °F °C		SPECIFIC GRAVITY (H_2O=1)	**1.01**		
VAPOR PRESSURE **N.A.** (@) °F °C mm Hg psi		PERCENT VOLATILE BY VOLUME(%)	**58.0%**	PERCENT SOLID BY WEIGHT (%)	**42.0%**
VAPOR DENSITY (*AIR=1*)	**>1.0**	EVAPORATION RATE (H_2O = 1)	**< 1.0**		
SOLUBILITY IN WATER	**COMPLETE**	pH =	**9.8**		
APPEARANCE AND ODOR **BLUE COLOR, BLAND ODOR**				IS MATERIAL: GAS **LIQUID** PASTE SOLID POWDER	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD USED **NONE – CONTAINS WATER**	FLAMMABLE LIMITS	LEL **NOT. DET.**	UEL **NOT. DET.**
EXTINGUISHING MEDIA **N.A.**			
SPECIAL FIRE FIGHTING PROCEDURES **WEAR SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN CONFINED PLACES.**			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

EPAHO108000269

NONE

SECTION V – HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE – CONDITIONS TO AVOID **NONE KNOWN**	THRESHOLD LIMIT VALUE **UNKNOWN** PERMISSIBLE EXPOSURE LIMIT **UNKNOWN**
PROLONGED CONTACT MAY CAUSE SKIN IRRITATION	OTHER LIMIT **UNKNOWN**

PRIMARY ROUTES OF ENTRY INHALATION **SKIN CONTACT** OTHER (SPECIFY)

EMERGENCY AND FIRST AID PROCEDURES

SKIN: WASH WITH SOAP & WATER	**EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER**
INGESTION: CONSULT A PHYSICIAN	**INHALATION: REMOVE TO FRESH AIR**

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID N/A
	STABLE	X	

INCOMPATIBILITY (MATERIALS TO AVOID)
OXIDIZING AGENTS AND STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS:
OXIDES OF CARBON AND CHLORINE.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID N/A
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED **CONTAIN SPILL. COVER WITH ABRASIVE, ABSORBENT MATERIAL TO AVOID SLIPPERY SURFACES. DO NOT FLUSH TO SEWERS.**

WASTE DISPOSAL METHOD
TREAT AS OILY WASTE AS FEDERAL, STATE AND LOCAL REGULATIONS PERMIT.

CERCLA (Superfund) REPORTABLE QUANTITY (in lbs.)	N/A
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)	N/A
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water)	N/A

= Theoretical lb. Gal N/A	Analytical lb. Gal N/A

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)		NONE DEEMED NEEDED.	
VENTILATION	LOCAL EXHAUST (Specify Rate)	ONLY IF MISTED.	SPECIAL N/A
	MECHANICAL (General) (Specify Rate)	ONLY IF MISTED.	OTHER N/A

PROTECTIVE GLOVES (Specify Type) **OIL/WATER RESISTANT**	EYE PROTECTION (Specify Type) **CHEMICAL GOGGLES**

OTHER PROTECTIVE EQUIPMENT
NONE NORMALLY NEEDED.

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
AVOID HIGH HEAT OR OPEN FLAME. KEEP FROM FREEZING FOR EASE IN HANDLING

OTHER PRECAUTIONS
GOOD PERSONAL HYGIENE SHOULD ALWAYS BE PRACTICED.

Name (print)	Jeff Steinkirchner
Title	PRESIDENT
Date	10/23/02

EPAHO108000270

2777 Port of Hon - mail w/ Sen Hon

2777

EPAHO108000271

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2777

Expiration Date 5/9/2010

Generator: Port of Houston Authority-M/V Sam Houston
Address: 8400 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: used antifreeze
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: yellowish **Odor:** green **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Profile # 2777

GB

ok

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority -M/V Sam Houston		
Address:	8400 Clinton Dr.		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	Title:	Manager
Phone No:	713-670-2814	Fax No:	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environmental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	Title:	
Phone No:	713.670.2814	Fax No:	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Antifreeze
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Yellowish/green Odor: glycol like

Specific Gravity (water=1): .80-1.0 Density: 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 3 Other: ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108000273

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	2-4%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: R H **Date:** 4-28-08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Prabhat Chandra Date: 5-9-08 (Approved) Rejected Approval Number: 2777	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000275

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000276

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35 drum Trans $70 + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

Test for glycol %

5. **Treatment and Handling Protocol:**

Glycol Recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Ethylene Glycol

8. **Management for Product Recovered/Recycled (if applicable);**

Glycol Recycling

EPAHO108000278

2778 Port of Houston -M/V
2778

EPAHO108000279

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2778

Expiration Date 5/9/2010

Generator: Port of Houston Authority-M/V Sam Houston
Address: 8400 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Oil filters
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment filter changes
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

#2778

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority - M/V Sam Houston		
Address:	8400 Clinton Drive		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	Title:	Manager
Phone No:	713-670-2814	Fax No:	713-670-2827
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	Title:	
Phone No:	713.6702463	Fax No:	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Oil filters
Detailed Description of Process Generating Waste: Equipment filter changes

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various Odor: oil like

Specific Gravity (water=1): ~~1.2~~ na Density: ~~9 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 Other: ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108000281

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	98%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Spent Oil Filters	98-100	%
oil	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-9-08 Approved Rejected

Approval Number: 2778

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000283

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000284

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Trans $70/hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Send to Oil filter recycler.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000285

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

Recycle oil filters

GATX (Hearne) 2779
2779

EPAHO108000287

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/13/2008**

Dear **Ricardo Salias**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2779

Expiration Date 5/13/2010

Generator: GATX (Hearne)
Address: 1401 W. Brown St.
Hearne, TX 77859

Waste Information

Name of Waste: Nutrient solution (ammonium chloride solution)
TCEQ Waste Code # 99062191
Container Type:
Detailed Description of Process Generating Waste:
Removal of heel prior to cleaning RCRA empty rail cars
Color: yellow **Odor:** slight ammonia odor **pH:** 6-8
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GH
High odor will require special handling + surcharge
OK

DC

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: GATX Rail (Hearne)
Address: 1401 W. Brown Street
City: Hearne **State:** TX **Zip:** 77859
Contact: Ricardo Salias **Title:**
Phone Number: 979-279-3481 **Fax Number:** 979-279-3020
24/hr Phone Number:
US EPA ID No: TXD000835207
State ID No: 32643 **SIC Code:** NA

SECTION 2: Billing Information - ☐ **Same as Above**

Company: GATX Rail
Address:
City: **State:** **Zip:**
Contact: Ricardo Salias **Title:**
Phone Number: 979-279-3481 **Fax Number:** 979-279-3020

SECTION 3: General Description of the Waste

Name of Waste: Nutrient Solution (Ammonium Chloride Solution)
Detailed Description of Process Generating Waste:

Removal of heel prior to cleaning RCRA empty rail cars

Physical State: ☑ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: yellow **Odor:** slight ammonia odor

Specific Gravity (water=1): 1.099 **Density:** 9.16 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ **Single-phase** ☐ **Multi-phase**

Container Type: ☑ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**

Frequency: ☐ **Weekly** ☑ **Monthly** ☐ **Yearly** ☐ **One-Time**
Quantity: 5

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: 99062191

Proper US DOT Shipping Name: Waste, Environmentally hazardous substances, liquid, n.o.s.

Class: 9 **UN/NA:** UN3082 **PG :** III **RQ:** 5000 lbs Ammonium Chloride

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
NA		6.75-8		na	mg/l	na	mg/l	0	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
0	mg/l	>1000	mg/l	0	mg/l	0	mg/l	0	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Nutrient Solution	100	%
Components of Nutrient Solution:		
Glycine	5-10	%
HMTA	1-5	%
Ammonium Chloride	20-25	%
Water	56-72	%
Sodium Carbonate	0.06	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory*: *Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/12/8

Printed Name/Title: Ricardo Salias

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 5-13-08 ☑ Approved ☐ Rejected
Approval Number: 2779

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$65.00/drum

2. Contamination Limit (maximum limit before surchages apply):

None ; Too high of an ammonia/amine odor will need surcharging for special handling.

3. Surcharge Pricing:

None

4. Special Testing Requirements:

TOC, ammonia ; Surcharge for high ammonia/amine odor

5. Treatment and Handling Protocol:

Mix with a load going to System 1

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

None

8. Management for Product Recovered/Recycled (if applicable)

None

CHATTEM CHEMICALS, INC.
MATERIAL SAFETY DATA SHEET
NUTRIENT SOLUTION

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or preparation trade name: NUTRIENT SOLUTION
Company/undertaking name & address: Chattem Chemicals, Inc.
3708 St. Elmo Avenue, Chattanooga, TN 37409
Telephone: (423) 822-5000
Emergency telephone number: 1-800-424-9300 (Chemtrec)
Name of preparer: Caleb Womack
Date Revised: 3/21/03
Reason Revised: Updated Transportation Information

2. Composition

COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS OSHA PEL	ACGIH TLV	OTHER	VAPOR PRESSURE mm Hg @ TEMP	PERCENT WEIGHT
GLYCINE	56-40-6	15 mg/m3	10 mg/m3	N/A	N/A	5-10
HMTA	100-97-0	N/A	N/A	N/A	N/A	1-5
AMMONIUM CHLORIDE	12125-02-9	10 mg/m3	10 mg/m3	N/A	1 320.7°F	20-25
WATER	7732-18-5	N/A	N/A	N/A	N/A	56-72
SODIUM CARBONATE	497-19-8	5 mg/m3	5 mg/m3	N/A	N/A	.06

3. HAZARDS IDENTIFICATION

Ratings (HMIS)
Health 1 **Flammability** 0 **Reactivity** 0 **Personal Protective Equipment:** Chemical Resistant Gloves
Safety/Splash Goggles

Primary Route of Exposure: Skin, Ingestion

Health Effect Information

Eye Contact: Product is irritating to the eyes.

Skin Contact: Product may be irritating to the skin.

Inhalation: None Known.

Ingestion: Large oral doses may cause nausea.

Medical Conditions Aggravated by Exposure: No information found.

4. FIRST AID MEASURES

Skin contact: Wash with soap and water. Get medical attention if irritation occurs.
Inhalation: Remove to fresh air. Get medical attention if breathing difficulty occurs.
Eye contact: Rinse with large amounts of water for 15 minutes. Get medical attention if irritation occurs.
Ingestion: If large amounts were swallowed, get medical attention.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties
Flash Point: N/A **Test Method:** N/A

Flammable Limits in Air
Upper Limits: N/A
Lower Limits: N/A
Autoignition Temperature: N/A **Test Method:** N/A

Suitable extinguishing media: Appropriate Foam, Water Fog, Dry Chemical, Carbon Dioxide.

Unsuitable extinguishing media: Use media appropriate for the original cause of the fire.

Unusual Fire and Explosion Conditions: None Known.

Required special protective equipment
for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Hazardous Combustion By-Products: Carbon Dioxide

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions: Keep out of streams, rivers, and sanitary sewers.

Methods for cleaning: Absorb with an industrial absorbent. Clean area with soap and water to remove any residues.

7. HANDLING AND STORAGE

Handling: Persons handling this material must adhere to training criteria in USDOT 49CFR172.700. Safety shower and eye wash stations should be available. Keep area well-ventilated. Wash thoroughly after handling.

Storage: Keep container closed. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS

Engineering measures: Local, mechanical exhaust recommended.
Respiratory Protection: Not normally required.
Eye protection: Safety/Splash Goggles
Hand protection: Protective Gloves. Latex or Neoprene.
Other Protective Clothing or Equipment: Optional, long sleeves for sensitive individuals.
Hygiene measures: Wash thoroughly after handling. Safety shower and eye wash station should be provided in the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid.
Odor: Slight ammonia odor.
pH: 6.75-8
Coating V.O.C.: N/A
Material V.O.C.: N/A
Evaporation Rate: N/A

Boiling point: N/A
Melting point: N/A
Vapor Density: N/A
Specific Gravity (H2O): 1.099
Solubility: Soluble

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal temperatures and conditions.
Materials to avoid: None Known.
Hazardous decomposition products: In conditions of extreme heat, the following decomposition products may be generated. Ammonia, CO_2, CO, HCl, NO_x, formaldehyde, and methylaminoacetic acid.
Hazardous Polymerization: Will not occur.

11. TOXOLOGICAL INFORMATION (will only print available data)

Primary Eye Irritation: May cause eye irritation.
Primary Skin Irritation: May cause skin irritation.
Acute Dermal Toxicity: N/A
Subacute Dermal Toxicity: N/A
Dermal Sensitization: Possible.
Inhalation Toxicity: N/A
Inhalation Sensitization: N/A
Oral Toxicity: Large doses may cause nausea.
Carcinogenity: NTP? No **IARC Monographs?** No **OSHA Regulated?** No
Mutagenicity: No data available.
Reproductive Toxicity: No data available.
Teratogenicity: No data available.
Immunotoxicity: No data available.
Neurotoxicity: No data available.
Other:

No other toxicological information available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available.
Terrestrial Toxicity: No data available.
Chemical Fate and Transport: No data available.

No other ecological information available.

13. DISPOSAL INFORMATION

Regulatory Information: Do not allow this material into streams, rivers, or sanitary sewers.

Waste Disposal Methods: Contact a licensed professional waste disposal service for incineration or solidification and landfilling of this material. Rinse empty drums to insure no flammable residue remains. Do not pressurize, cut, weld, brace, solder, drill, grind, or expose empty containers to heat. "Empty" drums should be completely drained, bunged, and returned to a drum reconditioner.

14. TRANSPORTATION INFORMATION

Note: This substance is classified as a hazardous material for transportation purposes due to the reportable quantity of Ammonium Chloride. The reportable quantity of Ammonium Chloride is 5000 lbs. This material is 20-25% Ammonium Chloride.

US DOT 49 CFR 172.101 Proper shipping name and number: Environmentally hazardous substances, liquid, n.o.s, (Ammonium Chloride Solution)
US DOT 49 CFR 172.101 Hazard Class or Division: 9
US DOT 49 CFR 172.101 Packaging Group: PGIII
US DOT 49 CFR 172.101 and Subpart E labeling requirements: 9
US DOT 49 CFR 172.101 Packing authorizations:
- **UN Number:** UN3082
- **Non-Bulk Packaging:** Comply with 49 CFR 173.203
- **Bulk Packaging:** Comply with 49 CFR 173.241

US DOT 49 CFR 172.101 Quantity Limitations:
- **Passenger Aircraft or Railcar:** No Limit
- **Cargo Aircraft Only:** No Limit

Air Transport IATA/ICAO: Environmentally hazardous substances, liquid, n.o.s, (Ammonium Chloride Solution)
- **UN/ID Number:** UN3082
- **IATA/ICAO Class:** 9
- **Packing Group:** PGIII
- **Label:** 9
- **Packing Instruction:** 914

Maritime Transport
- **IMDG Technical Name:** Environmentally hazardous substances, liquid, n.o.s, (Ammonium Chloride Solution)
- **UN/ID Number:** UN3082
- **IMDG Class:** 9
- **Packing Group:** PGIII
- **Subsidiary Risk Label:** None
- **Marine Pollutant:** No

15. REGULATORY INFORMATION

Regulatory Lists
U.S. TSCA Inventory: All components of this product are listed on the TSCA inventory.
SARA Section 313: This product contains the following SARA, Title III, Section 313 Chemicals:

Chemical	CAS Number	Percent in Product
None		

SARA 311/312 Categories
Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No
Not Regulated: Yes

Other Regulations:

16. OTHER INFORMATION

Disclaimer: The information contained herein is based upon data and information available to Chattem Chemicals, Inc., and reflects our best professional judgement. This information is furnished upon the condition that the person receiving it shall make his/her own determination of the suitability of the material for his/her particular use.

2780 of Houston — Turning Basin Terminal

2780

EPAHO108000300

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/13/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2780

Expiration Date 5/13/2010

Generator: Port of Houston Authority-Turning basin terminal
Address: 7300 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Crushed light bulbs
TCEQ Waste Code # UNIV320H
Container Type:
Detailed Description of Process Generating Waste:
burned out bulbs
Color: white **Odor:** none **pH:** 5-8
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Port of Houston Authority -Turning Basin Terminal		
Address:	Upper Level Road		
City, State, Zip:	Houston, TX 77029		
Contact:	Steve Senulis	**Title:**	Manager
Phone No:	713.670.2889	**Fax No:**	713-670-2427
24/hr Phone:	713.670.2289		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Crushed light bulbs
Detailed Description of Process Generating Waste: Burned out bulbs

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder**
☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: white **Odor:** none

Specific Gravity (water=1): na **Density:** na lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒ **Drum**	☐ **Tote**	☐ **Truck**	☐ **Other (explain)**
Container Size:	55 Gal	____	____	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: UNIV320H
Proper U.S. DOT Shipping Name: Environmentally Hazardous substance, Solid, N.O.S., 9, UN3077, PG III
Class: 9 **UN/NA:** UN3077 **PG:** III **RQ:** NA

EPAHO108000302

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	5-8	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
~~<1500~~mg/l na	~~<1500~~mg/l na	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Flourscent bulbs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-13-08 (Approved) Rejected

Approval Number: 2180

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000304

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000305

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

1.25/ lb Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

send to environmental light recyclers

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000306

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

2781 MTI Env
2781

EPAHO108000308

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/14/2008**

Dear **Troy Swearingen**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2781

Expiration Date 5/14/2010

Generator: MTI Environmental
Address: 2150 Pansy Rd
Pasadena, TX 77503

Waste Information

Name of Waste: sorbent, PPE, and debris
TCEQ Waste Code # CESQ3011
Container Type:
Detailed Description of Process Generating Waste:
sorbent pads, PPE, dirt, and debris from spill clean-up
Color: varies **Odor:** mild **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DRP

OK to treat

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	MTI Environmental		
Address:	2150 Pansy St		
City, State, Zip:	Pasadena, TX 77503		
Contact:	Troy Swearingen	**Title:**	
Phone No:	(832)257-6128	**Fax No:**	(713) 947-1529
24/hr Phone:	(832)257-6128		
U.S. EPA I.D. No:			
State I.D.	CESQG	**SIC Code:**	N/A

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Sorbent, PPE & Debris
Detailed Description of Process Generating Waste: Sorbent Pads, PPE, dirt & debris from spill clean-up

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** mild

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: CESQ-3011
Proper U.S. DOT Shipping Name: Non-RCRA/Non DOT regulated waste
Class: 1 **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 deg F	NA	N/Amg/l	N/Amg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>250mg/l	N/Amg/l	N/Amg/l	N/Amg/l	BRLmg/l

EPAHO108000310

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used PPE, sorbent pads & Misc debris	99-100	%
oil, water	0-1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-8-08

Printed Name/Title: Troy Searwgen / Supervisor

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: _____ Date: 5-14-08 Approved Rejected Approval Number: 2781	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000312

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000313

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/drum + trans + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

No free liquids

3. **Surcharge Pricing:**

$25/drum for solidification

4. **Special Testing Requirements:**

No free liquids

5. **Treatment and Handling Protocol:**

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000314

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

2782 MTI Environmental
2782

EPAHQ10800316

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/14/2008**

Dear **Troy Swearingen**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2782

Expiration Date 5/14/2010

Generator: MTI Environmental
Address: 2150 Pansy Rd
Pasadena, TX 77503

Waste Information

Name of Waste: oily water
TCEQ Waste Code # Recycle
Container Type: varies
Detailed Description of Process Generating Waste:
oily water from daily operations. Oil from machinery and equipment.
Color: dark **Odor:** hydrocarbon **pH:** 3-11
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

ASP
OK to treat.
$.02

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

4B

SECTION 1: Generator Information

Company:	MTI Environmental		
Address:	2150 Pansy St		
City, State, Zip:	Pasadena, TX 77503		
Contact:	Troy Swearingen	**Title:**	
Phone No:	(832)257-6128	**Fax No:**	(713) 947-1529
24/hr Phone:	(832)257-6128		
U.S. EPA I.D. No:	n/a		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste: Oily water from daily operations. Oil from machinery and equipment

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Dark **Odor:** hydrocarbon

Specific Gravity (water=1): 0.9-1 **Density:** 7.5-8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** ☒ **Other (explain)**
Container Size: ____ ____ ____ varies

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA - Recycle
Proper U.S. DOT Shipping Name: Non DOT regulated oil and water mixture
Class: na **UN/NA:** na **PG:** na **RQ:** na

EPAHO108000318

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150 200	3-11	namg/l	namg/l	0-1%

Oil&Grease	TOC	Zinc	Copper	Nickel
n/amg/l	n/amg/l	n/amg/l	n/amg/l	n/amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
water	95-99	%
oil	1-5	%
dirt	0-1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
none

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 5-8-08

Printed Name/Title: TROY SWEARINGEN / SUPERVISOR

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-14-08 (Approved) Rejected

Approval Number: 2782

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000320

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000321

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$0.10 /gal + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

std (TOC, metals, phenol, solids)

3. **Surcharge Pricing:**

std per rate sheet; if material is an emulsion then addition $.02/gal for heat treatment.

4. **Special Testing Requirements:**

~~FOC~~, Chlor-D-Tect, flash point on oil; pH, toc, metals, tss, phenols on water. If ~~this~~ emulsion, heat first

5. **Treatment and Handling Protocol:**

Separate oil phase before running TOC; if emulsion, must process to the ~~black~~ black oil water heating tank

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

used oil

2783 2783

A - Affordable Vacuum Service

EPAHO108000324

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/30/2008**

Dear **Danyell Childs**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2783

Expiration Date 5/30/2010

Generator: A-Affordable Vacuum Service
Address: 7039 burkett
Houston, TX 77021

Waste Information

Name of Waste: Recyclable oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Oily water generated from oil recycling services
Color: varies **Odor:** slight hydrocarbon **pH:** 2-12.5
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

YP
Conflicting category info - ~~not [illegible]~~ Changed to B. ~~[illegible]~~ B, D2 best sheet.

DB

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: A-Affordable Vacuum Service
Address: PO Box 940984 - 7039 Borkett Houston, TX 77021
City: Houston **State:** TX **Zip:** 77094 - 77021
Contact: Danyell Childs **Title:**
Phone Number: 713-802-7661 **Fax Number:** 713-842-2011
24/hr Phone Number: 281-802-7661
US EPA ID No: TXCESQG
State ID No: CESQG **SIC Code:** NA

SECTION 2: Billing Information - ☑ **Same as Above**

Company:
Address:
City: **State:** **Zip:**
Contact: **Title:**
Phone Number: **Fax Number:**

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Oily Water
Detailed Description of Process Generating Waste: Oily water generated from oil recycling services

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: V aries **Odor:** Slight Hydrocarbon

Specific Gravity (water=1): .7-1.0 **Density:** 7-8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ **Single-phase** ☑ **Multi-phase**

Container Type: ☑ **Drum** ☐ **Tote** ☑ **Truck** ☐ **Other (explain)**

Frequency: ☑ **Weekly** ☐ **Monthly** ☐ **Yearly** ☐ **One-Time**
Quantity: Varies

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: ~~none~~ Recycle

Proper US DOT Shipping Name: Recyclable Oily Water
Class: Na **UN/NA:** Na **PG :** Na **RQ:** Na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
~~>120~~ 200		2-12.5		0	mg/l	0	mg/l	0-2	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>100	mg/l	<5000	mg/l	~~Test~~ 0	mg/l	0 ~~Test~~	mg/l	0 ~~Test~~	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Oil	2-99	%
Water	1-98	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. NA

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None ~~oxidizers~~

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	Na
TCLP Volatiles:	Na
TCLP Semi-Volatiles:	Na
Reactivity:	Na
Corrosivity:	Na
Ignitability:	~~220~~ 200

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☑ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☑ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/8/2008

Printed Name/Title: Danyell Childs

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: _____ ☐ Approved ☐ Rejected
Approval Number: 2783

See next page

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	2-98	%
Water	2-98	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

—— Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

—— NA

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Darrell Childs **Date:** 5-8-08

Printed Name/Title: Darrell Childs

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [illegible] Additional Information: _____

Date: 5-30-08 (Approved) Rejected _____

Approval Number: 2783 _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Customer pays COD unless CES is purchasing high percentage of oil
.10/gal <5000 TOC
70% Oil- if good-.38/gal no charge for water
May be case by case basis if High Oil Content

2. **Contamination Limits (maximum limit before surcharges apply):**

No Phenolics
Metals on oil and water
must pass Chlor-d-tect
>~~120~~ 200 on flash

if oil is less than 70% customer pays for disposal.

3. **Surcharge Pricing:**

>5000 TOC call Dan Bowman 713-854-6150 if emulsion and additional $.02 for heat treatment.

4. **Special Testing Requirements:**

Chlor-d-Tect
Metals
Flash
Ash
TOC on water
Phenolics

% Oil; to an inbound for % Oil for billing
Decant oil + water

5. **Treatment and Handling Protocol:**

Oil treatment facility, decant oil + water if material is not an emulsion

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ~~☒ Subcategory C~~

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Used Oil Tests

8. **Management for Product Recovered/Recycled (if applicable):**

Used Oil Sale

2785 Kinder Morgan Pipeline
2785

EPAHO108000333

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/15/2008**

Dear **Eileen Exito**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2785

Expiration Date 5/15/2010

Generator: Kinder Morgan Pipeline
Address: 9819 State Hwy. 185
Victoria, TX NA

Waste Information

Name of Waste: Diesel flush
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Diesel used to flush a natural gas pipeline
Color: reddish brown **Odor:** diesel like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GP
OK

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Kinder Morgan Pipeline		
Address:	9819 State Highway 185		
City, State, Zip:	Victoria, TX		
Contact:	Dee W Bond (Baker Hughes PMG)	Title:	Operations Manager
Phone No:	281-230-7108	Fax No:	281-667-3959
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	BHBSS US General NON PO		
Address:	P.O. Box 4595		
City, State, Zip:	Houston, TX 77210		
Contact:	Eileen Exito	Title:	
Phone No:	281-230-7100	Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Diesel Flush
Detailed Description of Process Generating Waste: Diesel used to flush a natural gas pipeline

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: reddish brown Odor: diesel like

Specific Gravity (water=1): .90 Density: 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 5000 gal ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 3-5 Other: ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Combustible liquid, n.o.s., combustible liquid, NA 1993, PG-III
Class: ~~CL~~ 3 UN/NA: NA 1993 PG: III RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	neutral	0mg/l	0mg/l	0-3%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

[redacted]	[redacted]	[redacted]
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Diesel Fuel	97-100	%
Rust Scale	0-3	%
Water	0-1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES Evaluation Report

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: David Chumbes **Date:** 5-13-08

Printed Name/Title: Operations Supervisor

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] **Additional Information:** _____

Date: 5-15-08 **Approved** **Rejected** _____

Approval Number: 2785 _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

CES Pays $1.10 Gallon on net
Trans 70¢/Mr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

If < 80% Diesel Charge 10¢

4. **Special Testing Requirements:**

Should have no water phase.

5. **Treatment and Handling Protocol:**

BO Has out bound. @ $691/gallons.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

BO has out bound @ $1.91/gal

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Gary Brauckman
Cc: Kelli Lofton, Gary Peterson

Date: 05/12/08

From: Miles Root

Lab Memo: 08-077

Subject: **Baker Hughes Diesel Evaluation #0508-16**

A sample of diesel from Baker Hughes PMG, Victoria, has been evaluated as a purchase and resale potential for CES. This sample is evaluation 0508-16, and is diesel that has been used to flush a natural gas pipeline.

This sample looks like good diesel. We will not want to mix or blend it with any of our products, but market it "as is". The material is very clean looking and only has the solids on the bottom of the sample jar, that we will not be picking up. We should pursue the acquisition of this material for resale.

Enterprise Products op 2786
2786

EPAHO108000342

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date **5/20/2008**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2786

Expiration Date 5/20/2010

Producer: Enterprise Products Operating, L.P.
Address: 10207 FM 1942, Attn: Rachel Wheaton
Mont Belvieu, TX 77580

Material / Product Information

Name of Material / Product Sulfuric acid
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Unused material

Color: clear **Odor:** slight **pH:** <2
Physical State:

Incompatibilities: strong oxidizers, bases
Safety Related Data/Special Handling:
rubber gloves, rubber boots, goggles, chemical suit, face shiedl

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EBP
use as product

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Material Producer Information

Company: Enterprise Products
Address: 10207 FM 1942
City, State, Zip: Mont Belvieu, TX 77580
Contact: Ed Laszcz Title:
Phone No: 281-385-4300 Fax No:
24/hr Phone: 281-385-4300
U.S. EPA I.D. No: TXT490013455
State I.D. 31038 SIC Code: NA

SECTION 2: Billing Information – ☒ Same as Above

Company:
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: Sulfuric Acid
Detailed Description of Process Generating or Producing the Material / Product: unused material

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear Odor: Slight

Specific Gravity (water=1): NA Density: NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 5 Other:

Proper U.S. DOT Shipping Name: Product Sulfuric Acid
Class: 8 UN/NA: UN1830 PG: II RQ: 1000

EPAHO108000344

Flash Point >150-200	pH <2	N/A	N/A	Solids 0 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Sulfuric Acid	50 - 70	%
water	30 - 50	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
rubber gloves, rubber boots, goggles, chemical suit, face shield

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
- strong oxidizers bases

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A - Product **Date:** 5/16/08

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: [signature] Date: 5-20-08 Approved Rejected Approval Number: 2786	

EPAHO108000345

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$100/drm
$150/tran + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

N/A

3. **Surcharge Pricing:**

N/A

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Use in waste water and processing for pH adjustment.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C N/A

EPAHO108000346

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

Folge Mfg 2788
2788

EPAHO108000348

7E
8-4-09
LAB
T-35

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/21/2008**

Dear **Brian Williamson**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2788

Expiration Date 5/21/2010

Generator: Fogle Mfg
Address: 10101 Mula Rd
Stafford, TX 77477

Waste Information

Name of Waste: oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
oily water from storage tank
Color: varies **Odor:** mild **pH:** 7
Physical State:
Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BR
OK

CES Environmental Services, Inc.
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

JB

SECTION 1: Generator Information

Company: Fogle Mfg
Address: 10101 Mula Rd
City: Stafford **State:** Texas **Zip:** 77477
Contact: Shane Wills **Title:** General Manager
Phone Number: 281-495-1828 **Fax Number:** 281-495-5310
24/hr Phone Number: 281-495-1828
US EPA ID No:
State ID No: **SIC Code:**

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Working Solutions, Inc.
Address: 2522 Roy Circle
City: Houston **State:** TX **Zip:** 77007
Contact: Brian Williamson **Title:**
Phone Number: (832) 788-2558 **Fax Number:**

SECTION 3: General Description of the Waste

Name of Waste: Oily ~~Waste~~water
Detailed Description of Process Generating Waste:

~~Rust Preventative oil used in zinc phosphate process~~ JB Oily water from storage tank ~~at max~~

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** Mild

Specific Gravity (water=1): 0.92 **Density:** 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: approximately 1000 gallons process tan

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: Recycle

Proper US DOT Shipping Name: Non RCRA Non DOT Regulated material

Class: na **UN/NA:** na **PG :** na **RQ:** na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
~~200-326~~ F		7		o	mg/l	o	mg/l	0	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
	mg/l	8160	mg/l	.03	mg/l	.075	mg/l	.114	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Sulfonic Acids	0-2	%
Refined petroleum	3-8	%
Water	90-99	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Strong Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	x
TCLP Volatiles:	x
TCLP Semi-Volatiles:	x
Reactivity:	x
Corrosivity:	x
Ignitability:	x

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☑ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Brian Williamson **Date:** 5/20/2008

Printed Name/Title: Brian Williamson, Sales & Service Representative

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Pedro Ortiz
Date: 5-21-08 ☑ Approved ☐ Rejected
Approval Number: 2188

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$0.25 /gal trans + fgt

2. Contamination Limit (maximum limit before surchages apply):

std

3. Surcharge Pricing:

std according to rate sheet

4. Special Testing Requirements:

Test for pH, TOC, Zinc and nickle, % solids, % Oil, phenol.

5. Treatment and Handling Protocol:

Process to the heat tank of oil and water separation.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

MATERIAL SAFETY DATA SHEET
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
SOLOIL #5

(NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name WORKING SOLUTIONS, INC.	Emergency Telephone Number 800-424-9300 (CHEMTREC)
Address *(Number, Street, City, State and ZIP Code)* 2522 ROY CIRCLE HOUSTON, TEXAS 77007	Telephone Number for Information 713-862-3868
	Date Prepared 3/12/98
	Signature of Preparer *(optional)*

Section II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components *(Specific Chemical Identity; Common Name(s))*	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Sulfonic Acids, Petroleum sodium salts CAS #68608-26-4				<15
Refined Petroleum Oil(s) CAS #64741-89-5,CAS #64742-65-0, CAS 64742-52-5, CAS 64742-53-6			Oral LD50(rat):>5g/kg	>85
This product contains no ingredients subject to the reporting requirements of SARA 313 and 40 CFR 372.				

Section III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	525 F	Specific Gravity (H_2O = 1)	0.92
Vapor Pressure (mm Hg.) (25 ∘ C)	~0.02	Melting Point	N/A
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate =1)	<1

Solubility in Water:
Disperses

Appearance and Odor:
Clear amber liquid, mild odor.

Section IV — FIRE and EXPLOSION HAZARD DATA

Flash Point *(Method Used)*	Flammable Limits	LEL	UEL
326 ° F COC		N.D.	N.D.

Extinguishing Media
Dry chemical, CO_2, foam,water fog

Special Fire Fighting Procedures
Water or foam may cause frothing. Water spray may help to minimize vapors and cool containers in exposure area. Wear proper protective clothing and self contained breathing apparatus.

Unusual Fire and Explosion Hazards
Water may cause frothing.

Section V — REACTIVITY DATA

Stability	Unstable		Conditions to Avoid None
	Stable	X	

Incompatibility *(Materials to Avoid)*
Strong oxidizers, such as chlorine, permanganates, dichromates.

Hazardous Decomposition or Byproducts
Thermal decomposition in presence of air may yield oxides of carbon, sulfur and nitrogen.

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI — HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Yes	Skin?	Yes	Ingestion?	No

Health Hazards *(Acute and Chronic)*
Irritating to eyes, skin and respiratory tract.

Carcinogenicity:	NTP?	No	IARC Monographs?	No	OSHA Regulated?	No

Signs and Symptoms of Exposure:
Burning, tearing, redness, conjunctivitis of eyes. Redness, irritation and dermatitis of skin. Dizziness, headache, lightheadedness, coughing upon repeated inhalation.

Medical Conditions	
	Generally Aggravated by Exposure: No data available.
	Emergency and First Aid Procedures: SKIN & EYES: Flush with water for at least 15 minutes. If irritation persists, get medical attention. INHALATION: Remove to fresh air. Resuscitate if necessary. Get medical attention. INGESTION: DO NOT induce vomiting. Give 2-3 cups of milk or water to drink. No other first aid normally needed. If discomfort persists, get medical attention.

Section VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:
Dike area to contain spill. Recover or reclaim if possible. Use vacuum pickup and place in suitable containers. Do not allow to enter public sewers, drains or watercourses. Notify authorities if material enters waterways, sewers, etc.

Waste Disposal Method:
Dispose of in accordance with local, state and federal environmental regulations.

Precautions to Be Taken in Handling and Storing:
Store in cool, dry place. Keep away from oxidizing agents.

Other Precautions:
Avoid generating oil mists while handling.

Section VIII — CONTROL MEASURES

Respiratory Protection *(Specify Type)*:
If airborne concentrations are high, use suitable filter-type respirator.

Ventilation		
	Local Exhaust: Preferable for high concentrations.	Special:
	Mechanical *(General)*: Only if TLV exceeded.	Other:

Protective Gloves:	Eye Protection:
Oil resistant.	Chemical safety glasses.

Other Protective Clothing or Equipment:
As needed to avoid skin/eye contact. Eye wash fountain. Safety shower.

Work/Hygienic Practices:
Wash hands and face after use. Discard oil soaked shoes. Launder contaminated clothing before reuse.

EPAHO108000358

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joy Baker
Cc: Kelli Lofton, Gary Peterson

Date: 05/12/08

From: Miles Root

Lab Memo: 08-075

Subject: **Working Solutions Evaluation #0508-22**

A sample of emulsified oil and water from Working Solutions, produced from tank cleaning, has been evaluated as a potential receipts for processing at CES. This sample is evaluation 0508-22. We will be able to receive and process this material without unusual problems.

This sample can be treated by acidification with sulfuric acid and heat. The neat sample has a pH of 7, so is neutral. There are no solids in this neat sample. The oil and water phase separate. The percent of oil in this particular is approximately 5% by volume. A chlor-d-tect on the oil is less than 100 ppm, which is very good. The water treats easily but produces a greater than average percent of solids. The phase separated water has a slightly elevated TOC from the oil and no phenols. The treated water has low metals.

We will be able to accepts and treat this material. There is little oil to recover, but what is recoverable is saleable. Extra costs will be incurred for the heating and acidification of this material in our back processing area.

The table below summarizes the analytical work on this sample.

Working Solutions	
Evaluation 0508-22	
pH	7
Solids, neat	o
Phenls, ppm	o
TOC, ppm	8160
chlor-d-tect, ppm	<100
Metals, ppm	
Cd	0.025
Cr	0.097
Cu	0.075
Ni	0.114
Zn	0.03
Oil, % of total	5

2769 Port of Houston - M/V
2769

EPAHO108000360

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/6/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2769

Expiration Date 5/6/2010

Generator: Port of Houston Authority-M/V Sam Houston
Address: 8400 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Oily Shop Towels
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
rags from general cleaning
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

MR
OK

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority - M/V Sam Houston		
Address:	8400 Clinton Drive		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	Title:	Manager
Phone No:	713-670-2814	Fax No:	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environmental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	Title:	
Phone No:	713.6702463	Fax No:	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Oily Shop Towels
Detailed Description of Process Generating Waste: Rags from General cleaning

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various Odor: oil like

Specific Gravity (water=1): 1.1 Density: 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 3 Other: ____
Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108000362

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature] Date: 5-6-08 Approved Rejected Approval Number: 2769	OS (organic Solids)

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000364

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000365

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45.00 per drum Transportation $70.00 hr plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

There must not be any free liquids

5. **Treatment and Handling Protocol:**

NA Non hazardous Solids bin

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

Recycled Rags

Inter Service 2770

2770

EPAHO108000368

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/6/2008**

Dear **Nelson Fetgatter**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2770

Expiration Date 5/6/2010

Generator: Intra Service Company
Address: 16217 Ridlon
Channelview, TX 77530

Waste Information

Name of Waste: Oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
tank and box cleaning operations
Color: dark brown **Odor:** mild **pH:** na
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BRP OK

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	INTRA SERVICE COMPANY		
Address:	16217 RIDLON		
City, State, Zip:	CHANNELVIEW, TEXAS 77530		
Contact:	STEVE SAMS	**Title:**	AUTH. BROKER FOR GENERATOR
Phone No:	281-838-3400	**Fax No:**	281-424-7748
24/hr Phone:	281-838-3400		
U.S. EPA I.D. No:	TXR000064358		
State I.D.	87722	**SIC Code:**	- NA -

SECTION 2: Billing Information – ☒ Same as Above

Company:	PHOENIX POLLUTION CONTROL & ENVIRONMENTAL SERVICES, INC.		
Address:	4808 FAIRMONT PARKWAY BOX #274		
City, State, Zip:	PASADENA, TEXAS 77505		
Contact:	NELSON FETGATTER	**Title:**	PRESIDENT
Phone No:	281-838-3400	**Fax No:**	281-424-7748

SECTION 3: General Description of the Waste

Name of Waste: NON-HAZARDOUS, NON-RCRA OILY WATER
Detailed Description of Process Generating Waste: TANK AND BOX CLEANING OPERATIONS

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: DARK BROWN **Odor:** MILD

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 5,000 ____

Frequency: ☐ Weekly ☒ Monthly Quarterly ☐ Yearly
Number of Units (containers): 25,000 GALLONS **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: NON-HAZARDOUS, NON-RCRA OILY WATER
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	N/A	N/Amg/l	N/Amg/l	0-1%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

EPAHO108000370

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
WATER	94-99	%
ORGANICS / Oil	1-5%	%
SOLIDS	0-1%	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 01-25-08

Printed Name/Title: STEVE Sams / AUTH BROKER FOR GEN.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: _____

Date: 5-6-08 Approved Rejected RECYCLE

Approval Number: 2770

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☒ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000372

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000373

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$0.09/gal + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

TOC, solids, phenol, metals

3. **Surcharge Pricing:**

Standard surcharges per general rate sheet

4. **Special Testing Requirements:**

TOC, solids, phenol, metals

5. **Treatment and Handling Protocol:**

May need to process to the heat tank.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000374

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

Austin Energy 2771
2771

EPAHO108000376

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/7/2008**

Dear **Ginger Curtis**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2771

Expiration Date 5/7/2010

Generator: Austin Energy-Decker Power Plant
Address: 8003 Decker Lane
Austin, TX 78724

Waste Information

Name of Waste: Lead contaminated water
TCEQ Waste Code # 3111119H
Container Type:
Detailed Description of Process Generating Waste:
Water generated from the chemical cleaning of excangers
Color: varies **Odor:** none-slight **pH:** 10
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Give approval
number per
Matt Bowman
Fill in PFI - later
D

GP
High Ammonia
82 ppm of lead.
Solids cake will need to be
tested ~~[illegible]~~ Lead to high
for WWTS permit at .38 ppm!

DC

CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Austin Energy - Decker Creek Power Plant
Address: 8003 Decker Lane
City: Austin **State:** Tx **Zip:** 78724
Contact: Christine Hew **Title:** Environmental Compliance Specialist Senior
Phone Number: 512-505-7433 **Fax Number:** 512-505-7305
24/hr Phone Number: 512-627-1806
US EPA ID No: TX981049729
State ID No: NA **SIC Code:** NA

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Hydrochem Inc
Address: P.O. Box 820
City: Deer Park **State:** TX **Zip:** 77536
Contact: David Barrett **Title:** Account Manager
Phone Number: 281-479-8436 **Fax Number:** 281-479-8982

SECTION 3: General Description of the Waste

Name of Waste: Lead Contaminated Water
Detailed Description of Process Generating Waste: water generated from the chemical cleaning of exchangers

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies **Odor:** None - slight

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 32,000 gallons

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☑ Yes ☐ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

☐ ☐ ☐

If "Yes", is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☑ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: 3111119H

Proper US DOT Shipping Name: Hazardous waste, liquid, n.o.s.

Class: 9 **UN/NA:** 3082 **PG :** III **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 F		10		0	mg/l	0	mg/l	1-2	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
<1500	mg/l	1200	mg/l	0.058	mg/l	0.051	mg/l	0.259	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	98-99	%
Hydrochloric Acid	0.04	%
A120 Inhibitor	<0.001	%
Ammonium Biflouride	<0.01	%
Caustic Flake	0.001	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Analytical AE11027, AE11086, MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☑ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☑ Metals Subcategory
- ☐ Oils Subcategory
- ☐ *Organics Subcategory*

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/06/08

Printed Name/Title: Christine Hew / Environmental Compliance Specialist Senior

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-7-08 ☑ Approved ☐ Rejected
Approval Number: 2771

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Disposal: $0.40/gallon Freight: ~~$70.00/hour plus fsc~~
$0.17/gal

2. Contamination Limit (maximum limit before surchages apply):

Solids: 1% TOC: 15,000 TOC , 25 ppm Ammonia ;

3. Surcharge Pricing:

Solids: $0.01/gallon/% greater than 1% TOC: $0.03/gallon/5000 Toc greater than 15,000 TOC
$.04/gal / 50 ppm Ammonia

4. Special Testing Requirements:

pH, solids, TOC, phenols , Ammonia

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☑ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

Na

City of Austin
Austin Energy Laboratory Services (AELS), Analytical Laboratory
2401 Holly Street, Bldg B, Austin, TX 78702
P.O. Box 1088, Austin, TX 78767
Phone (512) 505-7840 Fax (512) 505-7843

Report Date: 4/3/08

Decker Power Plant
8003 Decker Lane
Austin, Texas 78724
Attn: Environmental Coordinator
(V)505-7433

Enclosed is the laboratory report for the following sample(s)

Sample(s) **Batch ID # : 08030054**

Sample Description: D_ENVIR
Project: ENVIRO_COORDINATOR
Collection Date: 03/28/08 - 13:30
Date Submitted: 03/28/08 - 13:30
Submitted by: Christine Hew
Received by: Ivan Barrios

Thank you for selecting AELS for your analytical needs. The following final report provides results related only to the sample(s) received for the above batch number. AELS will not reproduce this report, except in full, and with written authorization from the client. We appreciate your business and your continued support. We remain committed to supplying you the highest quality analytical results possible. If you have any question concerning this laboratory report, please contact Lawrence Moreno at (512) 505-7841. We look forward to assisting you again.

Sincerely,

Ewa Dudak-Pawlik, Sr. Chemist
Date and Time: 4/3/2008 4:21:07 PM

Enclosures

City of Austin

Austin's Community-Owned Electric Utility

Austin Energy Laboratory Services (AELS), Analytical Laboratory

2401 Holly Street Bldg B, Austin, Texas 78702

P.O. Box 1088 Austin, Texas 78767

Phone: (512) 505-7840 - Fax: (512) 505-7843

Report Date: 4/3/08

Ewa Dudak-Pawlik, Sr. Chemist

Analysis report page 1 of 1

Decker Power Plant
Attn: Environmental Coordinato
8003 Decker Lane
Austin, Texas 78724

Client ID	D#1 Cooler Cleaning Waste		
Lab Sample ID	08030054 - AE11086	**Collection Date**	3/28/2008 1:30:00 PM
Date Submitted	3/28/2008 1:30:00 PM	**Sampler**	C HEW
Submitted by	Christine Hew	**Sample Matrix**	SOLID/LIQUID
Received by	Ivan Barrios	**QC Sample ID:**	AE11086

Parameter Name	Result(s)	Units	Reference	Analysis Date	MDL	Analyst	Qual
Oil and Grease	9.9	mg/L	E1664	4/3/2008	3.5	AM	
Total Suspended Solids	93.7	mg/L	SM2540D	4/1/2008	4.0	LKM	
TCLP antimony	0.066	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP arsenic	<0.010	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP barium	0.172	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP beryllium	<0.010	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP cadmium	0.174	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP chromium	0.135	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP copper	14.3	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP iron	487	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP lead	81.9	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP manganese	2.8	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP nickel	2.48	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP selenium	0.026	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP silver	<0.010	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP zinc	5.62	mg/L	SW1311/6010B	4/1/2008	0.010	PCO	
TCLP mercury	<0.0002	mg/L	SW1311/7470A	3/31/2008	0.0002	PCO	

B - analyte detected in the associated method blank

D - duplicate RPD outside acceptance range, indication of non-homogeneity of sample

E - estimated result outside method calibration range

J - estimated result within five time the method detection limit

S - matrix spike recovery outside acceptance range, indication of matrix interference

U - not detected

QAQC Report

QC Batch	Parameter				Analyst	LCL	LWL	UWL	UCL	QC'ed Sam	Sample(s) in QC Batch
AG_TCL-15595	TCLP silver	Unspiked sample result	<0.010	mg/L	PCO				5.0	AE11086	AE11086
	Method Blank for TCLP silver		<0.010	mg/L	PCO					AE11086	
	MS Result for TCLP silver		1.33	mg/L	PCO					AE11086	
	Amt Spiked for TCLP silver		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP silver		133	% Recovery	PCO	50				AE11086	
AS_TCL-15596	TCLP arsenic	Unspiked sample result	<0.010	mg/L	PCO				5.0	AE11086	
	Method Blank for TCLP arsenic		<0.010	mg/L	PCO					AE11086	
	MS Result for TCLP arsenic		1.33	mg/L	PCO					AE11086	
	Amt Spiked for TCLP arsenic		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP arsenic		133	% Recovery	PCO	50				AE11086	
BA_TCL-15597	TCLP barium	Unspiked sample result	0.172	mg/L	PCO					AE11086	
	Method Blank for TCLP barium		<0.010	mg/L	PCO					AE11086	
	MS Result for TCLP barium		1.12	mg/L	PCO					AE11086	
	Amt Spiked for TCLP barium		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP barium		94.8	% Recovery	PCO	50				AE11086	
BE_TCL-15598	TCLP beryllium	Unspiked sample result	<0.010	mg/L	PCO				5.0	AE11086	
	Method Blank for TCLP berillium		<0.010	mg/L	PCO			0.1		AE11086	
	MS Result for TCLP berillium		1.03	mg/L	PCO					AE11086	
	Amt Spiked for TCLP berillium		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP berillium		103	% Recovery	PCO	50				AE11086	
CD_TCL-15599	TCLP cadmium	Unspiked sample result	0.174	mg/L	PCO				1.0	AE11086	
	Method Blank for TCLP cadmium		<0.010	mg/L	PCO					AE11086	
	MS Result for TCLP cadmium		1.18	mg/L	PCO					AE11086	
	Amt Spiked for TCLP cadmium		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP cadmium		101	% Recovery	PCO	50				AE11086	
CR_TCL-15600	TCLP chromium	Unspiked sample result	0.135	mg/L	PCO				5.0	AE11086	
	Method Blank for TCLP chromium		<0.010	mg/L	PCO					AE11086	
	MS Result for TCLP chromium		1.13	mg/L	PCO					AE11086	
	Amt Spiked for TCLP chromium		1	mg/L	PCO					AE11086	
	MS Recovery for TCLP chromium		99.5	% Recovery	PCO	50				AE11086	
CU_TCL-15601	MS Result for TCLP copper		17.1	mg/L	PCO					AE11086	
	MS Recovery for TCLP copper		280	mg/L	PCO	50	75	125	150	AE11086	
	Amt Spiked for TCLP copper		1	mg/L	PCO					AE11086	
	Method Blank for TCLP copper		<0.010	mg/L	PCO			0.002	0.004	AE11086	
	TCLP copper	Unspiked sample result	14.3	mg/L	PCO				5.0	AE11086	

EPAHO108000387

QC Batch	Parameter				Analyst	LCL	LWL	UWL	UCL	QC'ed Sam	Sample(s) in QC Batch	
FE_TCL-15602	MS Result for TCLP iron		320.8	mg/L	PCO					AE11086	AE11086	Page 4 of 7
	Method Blank for TCLP iron		<0.010	mg/L	PCO					AE11086		
	MS Recovery for TCLP iron		-16600	mg/L	PCO					AE11086		
	Amt Spiked for TCLP iron		1	mg/L	PCO					AE11086		
	TCLP iron	Unspiked sample result	487	mg/L	PCO					AE11086		
MN_TCL-15603	MS Result for TCLP manganese		3.8	mg/L	PCO					AE11086		
	MS Recovery for TCLP manganese		100	mg/L	PCO					AE11086		
	Amt Spiked for TCLP manganese		1	mg/L	PCO					AE11086		
	Method Blank for TCLP manganese		<0.010	mg/L	PCO					AE11086		
	TCLP manganese	Unspiked sample result	2.8	mg/L	PCO					AE11086		
NI_TCL-15604	TCLP nickel	Unspiked sample result	2.48	mg/L	PCO					AE11086		
	Method Blank for TCLP nickel		<0.010	mg/L	PCO			0.02		AE11086		
	MS Result for TCLP nickel		3.40	mg/L	PCO					AE11086		
	Amt Spiked for TCLP nickel		1	mg/L	PCO					AE11086		
	MS Recovery for TCLP nickel		92.0	% Recovery	PCO	50				AE11086		
PB_TCL-15605	TCLP lead	Unspiked sample result	81.9	mg/L	PCO				5.0	AE11086		
	Method Blank for TCLP lead		<0.010	mg/L	PCO			0.042	0.084	AE11086		
	MS Result for TCLP lead		76.1	mg/L	PCO					AE11086		
	Amt Spiked for TCLP lead		1	mg/L	PCO					AE11086		
	MS Recovery for TCLP lead		-580	% Recovery	PCO	50				AE11086		
SB_TCL-15606	TCLP antimony	Unspiked sample result	0.066	mg/L	PCO					AE11086		
	Method Blank for TCLP antimony		<0.010	mg/L	PCO			0.042		AE11086		
	MS Result for TCLP antimony		1.23	mg/L	PCO					AE11086		
	Amt Spiked for TCLP antimony		1	mg/L	PCO					AE11086		
	MS Recovery for TCLP antimony		116	% Recovery	PCO	50				AE11086		
SE_TCL-15607	TCLP selenium	Unspiked sample result	0.026	mg/L	PCO				1.0	AE11086		
	Method Blank for TCLP selenium		<0.010	mg/L	PCO			0.075	0.150	AE11086		
	MS Result for TCLP selenium		1.3	mg/L	PCO					AE11086		
	Amt Spiked for TCLP selenium		1	mg/L	PCO					AE11086		
	MS Recovery for TCLP selenium		127	% Recovery	PCO	50				AE11086		
TCLP_EXT-15608	TCLP for RCRA metals	Unspiked sample result	Complete		PCO					AE11086		
ZN_TCL-15609	MS Result for TCLP zinc		6.57	mg/L	PCO					AE11086		
	MS Recovery for TCLP zinc		95.0	mg/L	PCO	50	75	125	150	AE11086		
	Amt Spiked for TCLP zinc		1	mg/L	PCO					AE11086		
	Method Blank for TCLP zinc		<0.010	mg/L	PCO			0.002	0.004	AE11086		
	TCLP zinc	Unspiked sample result	5.62	mg/L	PCO				5.0	AE11086		

EPAHO108000388

QC Batch	Parameter				Analyst	LCL	LWL	UWL	UCL	QC'ed Sam	Sample(s) in QC Batch	
HG_TCL-15610	TCLP mercury	Unspiked sample result	<0.0002	mg/L	PCO				0.2	AE11086	AE11086	Page 5 of 7
	Method Blank for TCLP mercury		<0.0002	mg/L	PCO			0.000	0.000	AE11086		
	MS Result for TCLP mercury		0.00195	mg/L	PCO					AE11086		
	Amt Spiked for TCLP mercury		0.002	mg/L	PCO					AE11086		
	MS Recovery for TCLP mercury		97.5	% Recovery	PCO	50				AE11086		
TSS-15611	Total Suspended Solids	Unspiked sample result	12.0	mg/L	LKM					AE11090		
	Method Blank for TSS		<4.0	mg/L	LKM			4.0	8.0	AE11090		
	LCS Spk Amt for TSS		90.0	mg/L	LKM					AE11090		
	LCS Result for TSS		88.0	mg/L	LKM					AE11090		
	LCS Recovery for TSS		97.8	% Recovery	LKM	80	85	115	120	AE11090		
	Sample Dup for TSS		11.0	mg/L	LKM					AE11090		
ONG-15613	Oil and Grease	Unspiked sample result	<MDL	mg/L	AM ER					AE11041		
	Method Blank for Oil and Grease		<MDL	mg/L	AM ER				5.0	AE11041		
	LCS Spk Amt for OnG		40.0	mg/L	AM ER					AE11041		
	LCS Result for OnG		34.2	mg/L	AM ER					AE11041		
	LCS Recovery for OnG		85.5	% Recovery	AM ER	76	82	104	110	AE11041		
	MS/MSD Spk Amt for OnG		50.6	mg/L	AM ER					AE11041		
	MS Result for OnG		40.3	mg/L	AM ER					AE11041		
	MSD Result for OnG		41.3	mg/L	AM ER					AE11041		
	MS Recovery for OnG		79.6	% Recovery	AM ER	78	80	103	114	AE11041		
	MSD Recovery for OnG		81.6	% Recovery	AM ER	78	80	103	114	AE11041		
	MS/MSD Precision for OnG		2.48	RPD	AM ER			15	18	AE11041		

City of Austin
Austin Energy Laboratory Services (AELS), Analytical Laboratory
2401 Holly Street, Bldg B, Austin, TX 78702
P.O. Box 1088, Austin, TX 78767
Phone (512) 505-7840 Fax (512) 505-7843

CASE NARRATIVE

Client: D_ENVIR
Batch ID: **08030054**

2401 Holly Street, Building B, Austin Tx 78702	Phone:(512) 505-7840	Fax: (512) 505-7843	Batch # 08030054

Sampler Name (print)	Christine Hew	Project ID	
Client Name	Decker Creek Power Station		
Address	8003 Decker Lane		
City/State/Zip	Austin, Texas 78724		
Email Address	christine.hew@austinenergy.com		
Telephone Number(s)	512-505-7433	Fax: 512-505-7305	
Report To: Michael Schiller, Fred Velarde, Mark Pollock			
Invoice To (if different from above)	N/A	Address:	
Sample for environmental compliance	Yes X No	City/State/Zip	

Lab Check List--Samples Were:

1) Shipped Or Hand Delivered IB
2) Received In Good Condition IB
3) Temperature None Temp
4) Samples Will Be Sent Out _____
Customer Notified _____ *

Tumaround: Standard ____ Priority__X__Date 4/02/08
Circle : Hard Copy Email Verbal Fax

Please note below

Sample ID /Descriptions:	Lab ID #	# of Containers	Plastic (P) or Glass (G)	Preservative: None	HCl	HNO3	H2SO4		Matrix: Water	Soil	Sludge	Oil	Solid	Analyses to be done: As, Ag, Ba, Be, Cd, Cr, Sb, Hg,	Pb, Ni, Se, Fe, Mn, Cu, Zn (TCLP)					Collection: Field pH	Date	Time	Lab pH & Initials
D#1 Cooler Cleaning Waste	AE 11086	2	(G)	X					X					X	X					A.O	3/28/2008	13:30	

Definitons and Suggestion; Matrix:Soils, Oils, Water, Sludge; Preservatives: HNO3, HCL, H2SO4, ICE, NONE

Special instructions:
TCLP

Comments: 'of in to Linus 3/31/08 as requested by Christine Hew on 4/2/08
TSS and ONG added as a analysis

* Sample Sent To:
Preliminary Report
Sent 4/3/08

Received By:	Date: 3/28/08	Time: 1:30 P	
(Print) Ivan Barrios			
Relinquished By:	Date:	Time:	
(Print) Christine Hew			
Received By:			
(Print)			
Relinquished By:			
(Print)			

EPAHO108000391

City of Austin
Austin Energy Laboratory Services (AELS), Analytical Laboratory
2401 Holly Street, Bldg B, Austin, TX 78702
P.O. Box 1088, Austin, TX 78767
Phone (512) 505-7840 Fax (512) 505-7843

Report Date: 3/27/08

Decker Power Plant
8003 Decker Lane
Austin, Texas 78724
Attn: Christine Hew
(V)505-7433

Enclosed is the laboratory report for the following sample(s)

Sample(s) **Batch ID # : 08030034**

Sample Description: D_ENVIR
Project: ENVIRO_COORDINATOR
Collection Date: 03/19/08 - 09:50
Date Submitted: 03/19/08 - 14:10
Submitted by: Christine Hew
Received by: LKMutschler

Thank you for selecting AELS for your analytical needs. The following final report provides results related only to the sample(s) received for the above batch number. AELS will not reproduce this report, except in full, and with written authorization from the client. We appreciate your business and your continued support. We remain committed to supplying you the highest quality analytical results possible. If you have any question concerning this laboratory report, please contact Lawrence Moreno at (512) 505-7841. We look forward to assisting you again.

Sincerely,

Ewa Dudak-Pawlik, Sr. Chemist
Date and Time: 3/27/2008 5:03:59 PM

Enclosures

City of Austin

Austin's Community-Owned Electric Utility

Austin Energy Laboratory Services (AELS), Analytical Laboratory
2401 Holly Street Bldg B, Austin, Texas 78702
P.O. Box 1088 Austin, Texas 78767
Phone: (512) 505-7840 - Fax: (512) 505-7843

Ewa Dudak-Pawlik, Sr. Chemist
Analysis report page 1 of 1

Report Date: 3/27/08

Decker Power Plant
Attn: Christine Hew
8003 Decker Lane
Austin, Texas 78724

Client ID	D#2 Cooler Cleaning Waste		
Lab Sample ID	08030034 - AE11027	Collection Date	3/19/2008 9:50:00 AM
Date Submitted	3/19/2008 2:10:00 PM	Sampler	MS
Submitted by	Christine Hew	Sample Matrix	Wastewater
Received by	LKMutschler	QC Sample ID:	AE11027

Parameter Name	Result(s)	Units	Reference	Analysis Date	MDL	Analyst	Qual
Antimony	see attached	mg/L	E200.7	3/24/2008		SUB	
Arsenic	see attached	mg/L	E200.7	3/24/2008		SUB	
Barium	see attached	mg/L	E200.7	3/24/2008		SUB	
Beryllium	see attached	mg/L	E200.7	3/24/2008		SUB	
Cadmium	see attached	mg/L	E200.7	3/24/2008		SUB	
Chromium	see attached	mg/L	E200.7	3/24/2008		SUB	
Copper	see attached	mg/L	E200.7	3/24/2008		SUB	
Iron	see attached	mg/L	E200.7	3/24/2008		SUB	
Lead	see attached	mg/L	E200.7	3/24/2008		SUB	
Manganese	see attached	mg/L	E200.7	3/24/2008		SUB	
Nickel	see attached	mg/L	E200.7	3/24/2008		SUB	
Selenium	see attached	mg/L	E200.7	3/24/2008		SUB	
Silver	see attached	mg/L	E200.7	3/24/2008		SUB	
Zinc	see attached	mg/L	E200.7	3/24/2008		SUB	
Mercury	see attached	µg/L	E245.1	3/24/2008		SUB	

B - analyte detected in the associated method blank
D - duplicate RPD outside acceptance range, indication of non-homogeneity of sample
E - estimated result outside method calibration range
J - estimated result within five time the method detection limit
S - matrix spike recovery outside acceptance range, indication of matrix interference
U - not detected

City of Austin
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2401 Holly Street, Bldg B, Austin, TX 78702
P.O. Box 1088, Austin, TX 78767
Phone (512) 505-7840 Fax (512) 505-7843

CASE NARRATIVE

Client: D_ENVIR
Batch ID: **08030034**

Sample ID: AE11027
Samples send to San Antonio Testing Lab for analysis.

2401 Holly Street, Building B, Austin Tx 78702	Phone:(512) 505-7840	Fax: (512) 505-7843	Batch # 080300034

Sampler Name (print)	Michael Schiller
Client Name	Decker Creek Power Station
Address	8003 Decker Lane
City/State/Zip	Austin, Texas 78724
Email Address	christine.hew@austinenergy.com
Telephone Number(s)	512-505-7433 Fax: 512-505-7305
Report To: Christine Hew, Michael Schiller, Fred Velarde	
Invoice To (if different from above)	N/A
Sample for environmental compliance	Yes X No
Turnaround: Standard ____ Priority__X__Date 3/24/2008	
Circle : Hard Copy Email Verbal Fax	

Project ID

Lab Check List–Samples Were:

1) Shipped O/ Hand Delivered YM
2) Received In Good Condition Yes YM
3) Temperature 9.4 YM
4) Samples Will Be Sent Out Yes
Customer Notified YM*

Address:

City/State/Zip

Please note below

Sample ID /Descriptions:	Lab ID #	# of Containers	Plastic (P) or Glass (G)	Preservative: None	HCl	HNO3	H2SO4	Matrix: Water	Soil	Sludge	Oil	Solid	Analyses to be done: As, Ag, Be, Be, Cd, Cr, Sb, Hg,	Pb, Ni, Se, Fe, Mn, Cu, Zn (TCLP)					Collection: Field pH	Date	Time	Lab pH & Initials
D#2 Cooler Cleaning Waste	AE11027	2	(G)	X				X					X	X						3/19/2008	9:50	

Definitons and Suggestion; Matrix:Soils, Oils, Water, Sludge; Preservatives: HNO3, HCL, H2SO4, ICE, NONE

Special instructions:
TCLP

Comments:

* Sample Sent To: San Antonio Testing Lab air bill # 36041403 3/19/08
Sample filtered before shipping to San Antonio FG

Relinquished By:	Received By:	Relinquished By:	Received By:
(Print) Christine Hew	(Print) Ivan Bridges	(Print) Ivan Bridges	(Print) Michael Schiller
Date: 3/19/08 Time: 1410	Date: 3/19/08 Time: 1410	Date: 3/19/08 Time: 1230	Date: 3/19/08 Time: 1230

Page 4 of 8

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Lone Star Overnight AU5008

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 36041403

1. To: Print Name (Person) Marcela Haeskes Phone (Important)

Company Name

Street Address (No P.O. Box or P.O. Box Zip Code® Deliveries)

Suite / Floor

City State Zip

2. From: Print Name (Person) EWA DUDAK-PAWLIK Phone (Important) -91

Company Name

Street Address

Suite / Floor

City State Zip

3. Service:

- ☐ By 10:30am Delivery
- ☐ By 8:30am Delivery (Most Cities) (Extra Charge)
- ☐ **Saturday Delivery** - By 12 Noon (Extra Charge)
- ☐ Other_____

☐ Deliver Without Delivery Signature **(See Limits of Liability below)**

Release Signature

4. Package: Weight: Declared Value:

Your Company's Billing Reference Information

Ship Date: (mm/dd/yy) / /

5. Payment: Bill To Account Number

Bill To Credit Card - MC, VISA, AMEX, DISCOVER

Credit Card Number

Expiration Date: (mm/yy) /

6. Price:

Basic Charge	$
Additional Declared Value (Extra Charge)	$
8:30 am Delivery - Extra	$
Saturday Delivery - Extra	$
Other	$
Total	$

FOR COURIER USE ONLY

Courier Number 3085

Pick-up Location OC

Date 3/19

Time 1621

City Code:

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000), 2) pay an additional fee, 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. **NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.**

SENDERS COPY

Page 5 of 8

EPAHO108000396

SAN ANTONIO TESTING LABORATORY, INC.

Austin Energy Laboratory Services
2401 Holly Street, Bldg. B

Austin, TX 78702
ATTN: Ewa Dudak-Pawlik

Date/Time Received: 3/20/2008 8:01 AM

Date Reported: 3/24/2008

Project Name:
Project No.:

Additional Info:

Report No.: 0803-237

REPORT OF CHEMICAL ANALYSIS

Page 1 of 2

Sample ID #: 1 AE11027

Sampling Method: Grab

Sample Matrix: Liquid

Date/Time Collected: 3/19/2008 9:50 AM

Parameter	Results	Units	PQL	Analysis Method	Prep Method	Prep Date	Date Analyzed	Batch #	Analyst
Metals									
Total Antimony	**<0.01**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Copper	**1.07**	mg/L	0.02	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Iron	**61.8**	mg/L	0.05	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Manganese	**0.766**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Zinc	**0.484**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Arsenic	**<0.01**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Barium	**0.1**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Beryllium	**0.009**	mg/L	0.004	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Cadmium	**<0.005**	mg/L	0.005	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Chromium	**0.093**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Lead	**33.1**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Nickel	**0.655**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Selenium	**<0.01**	mg/L	0.01	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Silver	**<0.05**	mg/L	0.05	200.7	200.7	3/21/2008	3/24/2008	M32108L1	AR
Total Mercury	**<0.0002**	mg/L	0.0002	245.1	245.1	3/21/2008	3/21/2008	Hg32108L1	AR

REPORT OF CHEMICAL ANALYSIS

QUALITY CONTROL DATA

PARAMETER	BLANK	UNITS	SPIKE AMT	LCS % REC	LCSD % REC	LCS/LCSD LIMITS	MS % REC	MSD % REC	MS/MSD LIMITS	QC RESULTS	QC DUP RESULTS	RPD	RPD LIMIT
Metals													
QC Sample ID	0803-247-4												
Antimony	<0.01	mg/L	2	102	-	80-120	116	-	70-130	<0.01	<0.01	<1	20
Copper	<0.02	mg/L	2	100	-	80-120	140	-	70-130	<0.02	<0.02	<1	20
Iron	<0.05	mg/L	2	101	-	80-120	168	-	70-130	5.98	5.56	7	20
Manganese	<0.01	mg/L	2	101	-	80-120	108	-	70-130	1	0.925	8	20
Arsenic	<0.01	mg/L	2	101	-	80-120	106	-	70-130	<0.01	<0.01	<1	20
Barium	<0.01	mg/L	2	98	-	80-120	104	-	70-130	0.17	0.156	9	20
Beryllium	<0.004	mg/L	2	102	-	80-120	93	-	70-130	<0.004	<0.004	<1	20
Cadmium	<0.005	mg/L	2	100	-	80-120	102	-	70-130	<0.005	<0.005	<1	20
Chromium	<0.01	mg/L	2	100	-	80-120	103	-	70-130	<0.01	<0.01	<1	20
Lead	<0.01	mg/L	2	104	-	80-120	127	-	70-130	<0.01	<0.01	<1	20
Nickel	<0.01	mg/L	2	98	-	80-120	112	-	70-130	<0.01	<0.01	<1	20
Selenium	<0.01	mg/L	2	104	-	80-120	117	-	70-130	<0.01	<0.01	<1	20
Silver	<0.05	mg/L	1	94	-	80-120	125	-	70-130	<0.05	<0.05	<1	20
Zinc	<0.01	mg/L	2	99	-	80-120	116	-	70-130	<0.01	<0.01	<1	20
QC Sample ID	0803-125-1												
Mercury	<0.0002	mg/L	0.005	88	-	85-115	100	-	80-120	<0.0002	<0.0002	<1	20

Notes:

Definitions:

PQL Practical Quantitation Limit

mg/L Milligrams per Liter

Test Methods: Standard Methods for the Examination of Water and Wastewater, 20th Edition 1998
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

TCEQ Drinking Water Certificate # TX274-2008A

Richard Hawk
General Manager

1610 S. Laredo Street, San Antonio, Texas 78207 - 7029 · (210) 229 - 9920 · Fax (210) 229 - 9921

Austin Energy | **Laboratory Services** | **Chain of Custody Record**

0803 237

2401 Holly Street, Building B, Austin Tx 78702	Phone: (512) 505-7840 Fax: (512) 505-7843	Batch #
Sampler Name (print) Michael Schiller	Project ID (limit to 24 characters)	
Client Name Austin Energy Lab Services		
Address		
City/State/Zip ↓ see above		
Email Address ewa.dudak-pawlik@austinenergy.com		
Telephone Number(s) (512) 505-7841	Fax:	
Report To (if different or additional) Ewa Dudak-Pawlik		
Invoice To (if different from above) Lawrence Moreno	Address:	
Sample for environmental compliance X Yes No	City/State/Zip	

Check List--Lab Use Only

1) Circle: Shipped Or Hand Delivered (initial)
2) Received In Good Condition: Circle Yes or No (initial)
3) Temperature 7.2°C Ice (initial)
4) AELS will send sample to subcontracted Lab*
*Customer Initial No custody seals

Turnaround: Standard ____ Priority X Date 8/21/08
Circle: Hard Copy Email Verbal Fax

Please note below

Sample ID /Descriptions:	Lab ID #	# of Containers	Plastic (P) or Glass (G)	Comp (C) / Grab (G)	Preservative: ICE	Matrix**: Water	Analyses (Method to be used): As, Ag, Ba, Be, Cd, Cr, Sb, Hg, Pb, Ni, Se, Tl, Cu, Zn (Feb 2008.7)	Field pH	Collection: Date	Collection: Time	Lab pH & Initials
AE11027		1	P	G	X	X	X		8/19/08	0450	

**Matrices: Non-Potable Water, Aqueous, Solids (>15% settleable solids), NonAqueous Liquids (<15% settleable solids), Oils; Preservatives: HNO_3, HCl, H_2SO_4, Ice, None

Special instructions:

Comments:

*Sample Sent To:

Relinquished By: Ewa Dudak-Pawlik	Received By: Lou Starr	Date: 8/19/08	Time: 1500
(Print) Ewa DUDAK-PAWLIK	(Print)		
Relinquished By: Lou Starr	Received By:	Date:	Time:
(Print)	(Print)		

Revised December 2005 | Approved March 8, 2006 | ____ of ____ page(s)

EPAHO108000399

MATERIAL SAFETY DATA SHEET

HydroChem®
INDUSTRIAL SERVICES, INC.

DATE PREPARED: 01/16/2001
MSDS No: Y001
Ammonium Bifluoride

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Ammonium Bifluoride
Product Code: Y001
Product Name: Ammonium Bifluoride
Molecular Formula: NH_2HF_2
Generic Name: Acid intensifier

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact:	HydroChem ER
Emergency Phone	(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Ammonium bifluoride	100	1341-49-7

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	Supplier
Ammonium bifluoride	2.5 mg/m3	2.5 mg/m3 (as fluoride)	

COMMENTS:
The exposure limits listed above are for fluorides.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE:
White Crystal

IMMEDIATE CONCERNS:
May be toxic by
Skin Contact
Ingestion
Inhalation

MEDICAL CONDITIONS AGGRAVATED:
Populations that appear to be at increased risk from the effects of fluoride are individuals that suffer from diabetes insipdus or some forms of renal impairment.

ROUTES OF ENTRY:
Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES:
Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:
Immediately wash with soap and water. Rinse for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.

INGESTION:
DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Take to hospital at once.

INHALATION:
If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not Applicable
Autoignition Temperature: Not Applicable

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:
When heated strongly or burned, ammonia, nitrogen oxides, fluorine oxides, hydrogen fluoride are generated.

FIRE FIGHTING EQUIPMENT:
As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Scoop into appropriate containers.
Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:
Refer to Section 8.

STORAGE:
Keep dry.
Store in corrosion proof area.
Isolate from incompatible materials.
Do not store near oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Ventilation - General and local ventilation are required.

PERSONAL PROTECTION
EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY:
Use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:
Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystal
Color: White
pH: 2
Boiling Point: 462°F 239°C
Melting Point: 259°F 126°C
Solubility in Water: Soluble
Specific Gravity: 1.5 (water=1)

COMMENTS:
pH: pH listed above is for a 0.1N solution

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
When heated strongly or burned, ammonia, nitrogen oxides, fluorine oxides, hydrogen fluoride are generated.

INCOMPATIBLE MATERIALS:
Bases, metals and oxidizers

11. TOXICOLOGICAL INFORMATION

ACUTE
Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.
Skin: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.
Ingestion: Corrosive. Harmful if swallowed. Causes pain and severe burns to mouth, throat and stomach. Large amounts may cause illness or death.
Inhalation: Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.

TARGET ORGANS:
Skin, Respiratory tract

GENERAL COMMENTS:
Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: BQ9200000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:
Degradability: No information
Fish Toxicity: LC50 (P. promelas) = 50 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:
Ship via permitted waste hauler to permitted hazardous waste disposal facility for landfilling.

EMPTY CONTAINER:
Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:
This material is not a RCRA regulated material.

GENERAL COMMENTS:
Aqueous solutions may have the EPA Hazardous Waste Number D002.

COMMENTS:
Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Ammonium Hydrogen Fluoride, Solid
Hazard Class: 8
NA/UN Number: UN1727
Packing Group: II
Reportable Quantity (RQ) Under CERCLA: 100 lb
Placards: Corrosive

SPECIAL SHIPPING NOTES:
Material is a HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE. Add the letters RQ to the beginning of the shipping description if the RQ amount is met or exceeded in a single container.

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard

DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: Yes

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 100 lb

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:
Biannual review

Approval date: 01/16/2001

REVISION SUMMARY
Revision #: 2

This MSDS replaces the September 15, 1998 MSDS. Any changes in information are as follows:
In Section 1
Approved by Reason for Issue Date Prepared

In Section 3
Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 13
RCRA/USPA Waste Information General Comments

In Section 15
Chronic SARA Title III Notes

In Section 16
HMIS Flammability NFPA Flammability

NFPA CODES
Fire: 0 Health: 3 Reactivity: 0

HMIS CODES
Fire: 0 Health: 3 Reactivity: 0

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The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

MATERIAL SAFETY DATA SHEET

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 10/21/2005
MSDS No: H315
Hydrochloric Acid, 31.5% -uninhibited

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Hydrochloric Acid, 31.5% -uninhibited
Product Code: H315
Product Name: Hydrochloric Acid, 31.5% -uninhibited
Chemical Family: Mineral acid
Molecular Formula: HCl
Generic Name: Hydrochloric Acid, 20 degrees Baume

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:
Emergency Contact: HydroChem ER Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Hydrogen chloride	31.5	7647-01-0
Water	68.5	7732 -18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS	OSHA PEL	ACGIH TLV	IDHL
Hydrogen chloride	7 mg/m3, 5 ppm	2 ppm/2.98 mg/m3 STEL	100 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS: Strong acid. Corrosive. Do not get in eyes, on skin or clothing. Do not breath vapors

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN: Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.
INGESTION: DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Take to hospital at once.
INHALATION: Remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not Applicable
Autoignition Temperature: None

GENERAL HAZARD:
Not Flammable, but reacts with most metals to form flammable hydrogen gas. Container may explode in heat of fire.

FIRE FIGHTING PROCEDURES:
Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Evacuate the immediate area.
Use water spray to reduce vapors.
Cover with dry lime, soda ash or sand.
Place in covered container (plastic if acidic).
Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Refer to Section 8.

STORAGE:
Keep container tightly closed.
Store in corrosion proof area.
Isolate from incompatible materials.
Do not store near oxidizing materials.

COMMENTS:
When mixing, place water in container first, followed by the acid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Ventilation -General and local ventilation are required.
PERSONAL PROTECTION
EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY: Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) in nonventilated area and/or exposure above TLV. Use SCBA (self-contained breathing apparatus) in confined areas and for emergencies.
PROTECTIVE CLOTHING:
Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
pH: <1
Percent Volatile: 100
Vapor Pressure: 23.5 mm Hg at 20°C
Vapor Density: >1 (Air = 1)
Boiling Point: 178°F 81.5°C
Freezing Point: -60°F -51°C
Solubility in Water: Completely Miscible in All Proportions
Evaporation Rate: Not Determined
Specific Gravity: 1.16 (water=1) at 60°F

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
Hydrogen, hydrogen chloride, chlorine and oxides of chlorine.

INCOMPATIBLE MATERIALS: Bases, oxidizers (releases chlorine and chlorine oxides), metals (releases hydrogen gas), sulfuric acid, carbonates.

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes:	Corrosive. Rapidly causes pain, burns, and corneal injury. May cause permanent damage and blindness.
Skin: Corrosive.	Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.
Ingestion:	Corrosive. Causes pain and severe burns to mouth, throat and stomach.
Inhalation:	Corrosive. Short exposure can injure lungs, throat, mucous membranes and reduce lung capacity. Causes pain, burns, choking, and coughing.

TARGET ORGANS: May cause changes in liver and pulmonary blood vessels. Prolonged exposure at low concentration may cause erosion of the teeth.

GENERAL COMMENTS:
Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.
RTECS Number: MW4025000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:
Degradability: Not biodegradable.
Fish Toxicity: Low toxicity to fish (when neutralized).

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Ship via permitted waste hauler to permitted hazardous waste disposal facility for solidification and land filling (preferred) or disposal well injection. Neutralized material may be acceptable in sanitary sewers; check local regulations.
EMPTY CONTAINER: Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.
RCRA/USEPA WASTE INFORMATION:
RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:
Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Hydrochloric acid, solution
Hazard Class: 8
NA/UN Number: UN1789
Packing Group: II
Reportable Quantity (RQ) Under CERCLA: 1640 gal
Placards: Corrosive
Label: Corrosive -8

SPECIAL SHIPPING NOTES: If RQ is exceeded in a single container, material is a HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE; add the letters RQ to the beginning of the shipping description.

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard

DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: Yes

313 Reportable Ingredients: Hydrochloric acid (31.5%)

Title III Notes: This product contains substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 1640 gal

EPA
EPA RQ Ingredient: Hydrogen Chloride

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS
PROPOSITION 65 STATEMENT: This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

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16. OTHER INFORMATION

REASON FOR ISSUE:
Review

Approved by: Tina Proctor, CHMM
Approval date: 10/21/2005

REVISION SUMMARY
Revision #: 5

This MSDS replaces the October 8, 2005 MSDS. Any changes in information are as follows:
In Section 2
Exposure Limits

In Section 5
General Hazard

In Section 6
General Procedures

NFPA CODES Fire: 0 Health: 3 Reactivity: 1

HMIS CODES Fire: 0 Health: 3 Reactivity: 1

MANUFACTURER DISCLAIMER:
TM Indicates a trade or service mark of HydroChem Industrial Services, Inc.
The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.
HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

MATERIAL SAFETY DATA SHEET

HydroChem®
INDUSTRIAL SERVICES, INC.

DATE PREPARED: 9/6/2007
MSDS No: M238
Ferric Iron Reducing Agent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Ferric Iron Reducing Agent
Product Code: M238
Product Name: Ferric Iron Reducing Agent
Chemical Family: Organic salt
Generic Name: Sodium Erythorbate

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact:	HydroChem ER
Emergency Phone	(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Sodium Erythorbate	100	6381-77-7

COMMENTS:
Product Exposure Limits:
Nuisance Dust - OSHA PEL: 15 mg/m3 ACGIH TLV: 10 mg/m3
Respirable Fraction - OSHA PEL: 5 mg/m3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE:
White powder

IMMEDIATE CONCERNS:
No hazard in normal industrial use.
Dust may be irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:
Persons with impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:
Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES:
Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:
Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:
If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:
Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C
Flammable Limits: Not Determined
Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon and harmful organic chemical fumes.

EXPLOSION HAZARDS:
Dusts at sufficient concentrations can form explosive mixtures with air.

FIRE FIGHTING EQUIPMENT:
As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Scoop into appropriate containers.
Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:
Refer to Section 8.

STORAGE:
No special precautions required.
Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Ventilation - General and local ventilation are required.

PERSONAL PROTECTION
EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY:
None normally needed. For protection from dust, use NIOSH approved respirator with dust protection.

PROTECTIVE CLOTHING:
Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder
Color: White
pH: 5 to 8
Percent Volatile: None
Vapor Pressure: Not Determined
Boiling Point: Not Determined
Melting Point: Not Determined
Solubility in Water: 15.3
Specific Gravity: 1.65 (water=1)

COMMENTS:
pH: pH listed above is for a 5% solution
Water Solubility: Solubility listed above is grams per 100 grams of water.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:
Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE
Eyes: Irritant. May cause pain, redness, discomfort.
Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.
Ingestion: No effect expected. Swallowing large amounts may cause illness.
Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

GENERAL COMMENTS:
Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

NIOSH (RTECS) Number: 1003341SE

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:
Materials is not considered to be an environmental hazard.

GENERAL COMMENTS:
No environmental data for this material are currently available.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:
Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:
Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:
This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Sodium Erythorbate – NOT REGULATED
Placards: None
Label: None

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS
PROPOSITION 65 STATEMENT:
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:
Biannual review

Approval date: 11/03/2000

REVISION SUMMARY

Revision #:6

This MSDS replaces the December 22, 2000 MSDS. Any changes in information are as follows:
Approved by: Jack W. Horvath, Senior Chemist

Reason for Issue: Regular Review.
No Changes.

MANUFACTURER DISCLAIMER:

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HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 03/24/08

From: Miles Root

Lab Memo: 08-043

Subject: **Hydrochem Water Evaluation 0308-88**

A sample of water from Hydrochem, Deer Park has been evaluated as a potential receipt for treatment at CES. This water is from the chemical cleaning of an exchanger and is evaluation 0308-88. This sample treats easily, has low TOC, phenols, and solids. We should pursue the acquisition of this stream. This sample came with a lab report showing metals analysis including lead as 27.6 mg/L. We will need to dilute this stream with our other "good" water in order for it to be discharged. Our regular five metals analyzed to be low in a treated sample of this water. The analytical test results for this sample are summarized below.

Hydrochem	
Evaluation 0308-88	
pH	10
Solids %	0
TOC, mg/L	1112
Phenols, ppm	0
Metals	
Cd	0.000
Cr	0.062
Cu	0.051
Ni	0.259
Zn	0.058

2772
Fusion
2772

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/8/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2772

Expiration Date 5/8/2010

Generator: Fusion, Inc.
Address: 6911 Fulton
Houston, TX 77022

Waste Information

Name of Waste: IDW- Class 2 soil Borings
TCEQ Waste Code #: CESQ3012
Container Type:
Detailed Description of Process Generating Waste:
waste derived from the site investigation of a metal coatings facility
Color: brown **Odor:** none **pH:**
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Fusion Inc
Address: 6911 Fulton
City, State, Zip: Houston, TX 77022
Contact: Stratton Gillis **Title:**
Phone No: **Fax No:**
24/hr Phone:
U.S. EPA I.D. No: TXD092406321
State I.D. 32139 **SIC Code:** 3479

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Zac McKaughan **Title:** Owner
Phone No: (936) 447-3628 **Fax No:**

SECTION 3: General Description of the Waste

Name of Waste: IDW - Class 2 Soil Borings
Detailed Description of Process Generating Waste: Waste derived from the site investigation of a metal coatings facility

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown - Dirt **Odor:** None

Specific Gravity (water=1): _____ **Density:** _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes . ☒ No

Layers: ☐ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal _____ _____ _____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 20 **Other:** One Time
Texas State Waste Code No: CESQ3012
Proper U.S. DOT Shipping Name: Non Hazardous
Class: _____ **UN/NA:** _____ **PG:** _____ **RQ:** _____

EPAHO108000429

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
_____	_____	_____mg/l	_____mg/l	_____%

Oil&Grease	TOC	Zinc	Copper	Nickel
_____mg/l	_____mg/l	_____mg/l	_____mg/l	_____mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Soil	99	%
Moisture	1.	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** ____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	$25/drum
Date: _____ Approved Rejected	Class II landfill
Approval Number: 2772	No internal test

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Fusion Inc
Address: 6911 Fulton
City, State, Zip: Houston, TX 77022
Contact: Stratton Gillis Title:
Phone No: Fax No:
24/hr Phone:
U.S. EPA I.D. No: TXD092406321
State I.D. 32139 SIC Code: 3479

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Zac McKaughan Title: Owner
Phone No: (936) 447-3628 Fax No:

SECTION 3: General Description of the Waste

Name of Waste: IDW - Class 2 Soil Borings
Detailed Description of Process Generating Waste: Waste derived from the site investigation of a metal coatings facility

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown - Dirt Odor: None

Specific Gravity (water=1): ____ Density: ____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☐ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 20 Other: One Time
Texas State Waste Code No: CESQ3012
Proper U.S. DOT Shipping Name: Non Hazardous
Class: ____ UN/NA: ____ PG: ____ RQ: ____

PHASE ENGINEERING Fax:713-476-9797 Apr 23 2008 16:00 P.02

EPAHO108000431

Flash Point	pH	Reactive Sulfides mg/l	Reactive Cyanides mg/l	Solids %
Oil&Grease mg/l	TOC mg/l	Zinc mg/l	Copper mg/l	Nickel mg/l

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Soil	99	%
Moisture	1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

Chromium TCLP attached
~~Even though concentrations of lead exceeded limits for class 2, averaged over the total depth, the concentration will be less than 5 ppm for lead.~~

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

X Authorized Signature: _____ Date: 4/23/08

X Printed Name/Title: Ross Doctrine / Project Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Tyler

Date: 5/8/2008 Approved Rejected

Approval Number: _____

PHASE ENGINEERING Fax:713-476-9797 Apr 23 2008 16:00 P.03

EPAHO108000432

KAP TECHNOLOGIES, Inc.
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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.04
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	17

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.181	0.602	2.17	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.904	1.20	209	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.090	0.301	0.542	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.064	0.181	0.723	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.090	0.301	23.8	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.090	0.301	142	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.090	0.301	7.47	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.151	0.301	< 0.151	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.05
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	23

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.195	0.649	< 0.195	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.195	0.649	4.55	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.974	1.30	156	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.097	0.325	1.69	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.069	0.195	1.36	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.097	0.325	76.0	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.097	0.325	4.61	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.003	0.005	< 0.003	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.097	0.325	32.4	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.162	0.325	< 0.162	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.195	0.649	< 0.195	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.06
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	13

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.172	0.575	< 0.172	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.172	0.575	1.15	mg/Kg	
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.862	1.15	58.0	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.086	0.287	0.575	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.061	0.172	0.172	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.086	0.287	21.0	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.086	0.287	7.70	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.086	0.287	7.87	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.144	0.287	< 0.144	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.172	0.575	< 0.172	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 14'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.07
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	30

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.214	0.714	< 0.214	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.214	0.714	14.6	mg/Kg	
Barium, Total	4/8/2008	4/9/2008	1	0.750	1.071	1.43	241	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.107	0.357	1.71	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.076	0.214	0.714	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.107	0.357	73.6	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.107	0.357	9.21	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.003	0.006	< 0.003	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.107	0.357	31.5	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.179	0.357	< 0.179	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.214	0.714	< 0.214	mg/Kg	U

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Laboratory Analysis Report

RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.08
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	21

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.190	0.633	< 0.190	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.190	0.633	2.41	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.949	1.27	92.4	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.095	0.316	0.886	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.067	0.190	0.696	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.095	0.316	29.7	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.095	0.316	7.78	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.003	0.005	< 0.003	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.095	0.316	11.6	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.158	0.316	< 0.158	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.190	0.633	< 0.190	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.09
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	17

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	1.27	mg/Kg	
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.904	1.20	75.3	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	0.482	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.064	0.181	0.301	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	16.7	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	8.31	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	4.34	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.151	0.301	< 0.151	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.10
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/27/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	11

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/8/2008	1	0.150	0.169	0.562	< 0.169	mg/Kg	U
Arsenic, Total	4/2/2008	4/8/2008	1	0.150	0.169	0.562	5.84	mg/Kg	
Barium, Total	4/2/2008	4/8/2008	1	0.750	0.843	1.12	228	mg/Kg	
Beryllium, Total	4/2/2008	4/8/2008	1	0.075	0.084	0.281	1.40	mg/Kg	
Cadmium, Total	4/2/2008	4/8/2008	1	0.053	0.060	0.169	1.24	mg/Kg	
Chromium, Total	4/2/2008	4/8/2008	1	0.075	0.084	0.281	64.0	mg/Kg	
Lead, Total	4/2/2008	4/8/2008	1	0.075	0.084	0.281	11.1	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.004	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/8/2008	1	0.075	0.084	0.281	27.2	mg/Kg	
Selenium, Total	4/2/2008	4/8/2008	1	0.125	0.140	0.281	< 0.140	mg/Kg	U
Silver, Total	4/2/2008	4/8/2008	1	0.150	0.169	0.562	< 0.169	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.11
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/28/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	19

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/8/2008	1	0.150	0.185	0.617	< 0.185	mg/Kg	U
Arsenic, Total	4/2/2008	4/8/2008	1	0.150	0.185	0.617	2.16	mg/Kg	
Barium, Total	4/2/2008	4/8/2008	1	0.750	0.926	1.23	41.7	mg/Kg	
Beryllium, Total	4/2/2008	4/8/2008	1	0.075	0.093	0.309	0.864	mg/Kg	
Cadmium, Total	4/2/2008	4/8/2008	1	0.053	0.065	0.185	< 0.065	mg/Kg	U
Chromium, Total	4/2/2008	4/8/2008	1	0.075	0.093	0.309	8.95	mg/Kg	
Lead, Total	4/2/2008	4/8/2008	1	0.075	0.093	0.309	4.63	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/8/2008	1	0.075	0.093	0.309	5.56	mg/Kg	
Selenium, Total	4/2/2008	4/8/2008	1	0.125	0.154	0.309	< 0.154	mg/Kg	U
Silver, Total	4/2/2008	4/8/2008	1	0.150	0.185	0.617	< 0.185	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.12
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/28/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	13

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/8/2008	1	0.150	0.172	0.575	< 0.172	mg/Kg	U
Arsenic, Total	4/2/2008	4/8/2008	1	0.150	0.172	0.575	< 0.172	mg/Kg	U
Barium, Total	4/2/2008	4/8/2008	1	0.750	0.862	1.15	77.0	mg/Kg	
Beryllium, Total	4/2/2008	4/8/2008	1	0.075	0.086	0.287	< 0.086	mg/Kg	U
Cadmium, Total	4/2/2008	4/8/2008	1	0.053	0.061	0.172	< 0.061	mg/Kg	U
Chromium, Total	4/2/2008	4/8/2008	1	0.075	0.086	0.287	6.72	mg/Kg	
Lead, Total	4/2/2008	4/8/2008	1	0.075	0.086	0.287	3.16	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/8/2008	1	0.075	0.086	0.287	5.11	mg/Kg	
Selenium, Total	4/2/2008	4/8/2008	1	0.125	0.144	0.287	< 0.144	mg/Kg	U
Silver, Total	4/2/2008	4/8/2008	1	0.150	0.172	0.575	< 0.172	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 1 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.13
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/29/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	7.6

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.162	0.541	< 0.162	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.162	0.541	3.73	mg/Kg	
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.812	1.08	109	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.081	0.271	0.703	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.057	0.162	0.433	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.081	0.271	23.2	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.081	0.271	14.6	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.004	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.081	0.271	5.30	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.135	0.271	< 0.135	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.162	0.541	< 0.162	mg/Kg	U

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RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.14
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/29/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	20

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/8/2008	1	0.150	0.188	0.625	< 0.188	mg/Kg	U
Arsenic, Total	4/2/2008	4/8/2008	1	0.150	0.188	0.625	3.81	mg/Kg	
Barium, Total	4/2/2008	4/8/2008	1	0.750	0.938	1.25	257	mg/Kg	
Beryllium, Total	4/2/2008	4/8/2008	1	0.075	0.094	0.313	1.38	mg/Kg	
Cadmium, Total	4/2/2008	4/8/2008	1	0.053	0.066	0.188	1.19	mg/Kg	
Chromium, Total	4/2/2008	4/8/2008	1	0.075	0.094	0.313	55.9	mg/Kg	
Lead, Total	4/2/2008	4/8/2008	1	0.075	0.094	0.313	17.4	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.003	0.005	< 0.003	mg/Kg	U
Nickel, Total	4/2/2008	4/8/2008	1	0.075	0.094	0.313	28.4	mg/Kg	
Selenium, Total	4/2/2008	4/8/2008	1	0.125	0.156	0.313	< 0.156	mg/Kg	U
Silver, Total	4/2/2008	4/8/2008	1	0.150	0.188	0.625	< 0.188	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.15
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	12

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/8/2008	1	0.150	0.170	0.568	< 0.170	mg/Kg	U
Arsenic, Total	4/2/2008	4/8/2008	1	0.150	0.170	0.568	1.25	mg/Kg	
Barium, Total	4/2/2008	4/8/2008	1	0.750	0.852	1.14	206	mg/Kg	
Beryllium, Total	4/2/2008	4/8/2008	1	0.075	0.085	0.284	0.455	mg/Kg	
Cadmium, Total	4/2/2008	4/8/2008	1	0.053	0.060	0.170	0.170	mg/Kg	
Chromium, Total	4/2/2008	4/8/2008	1	0.075	0.085	0.284	11.3	mg/Kg	
Lead, Total	4/2/2008	4/8/2008	1	0.075	0.085	0.284	6.02	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/8/2008	1	0.075	0.085	0.284	3.24	mg/Kg	
Selenium, Total	4/2/2008	4/8/2008	1	0.125	0.142	0.284	< 0.142	mg/Kg	U
Silver, Total	4/2/2008	4/8/2008	1	0.150	0.170	0.568	< 0.170	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.16
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	17

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	5.78	mg/Kg	
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.904	1.20	121	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	1.20	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.064	0.181	1.14	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	53.6	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	6.75	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.090	0.301	24.0	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.151	0.301	< 0.151	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.181	0.602	< 0.181	mg/Kg	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	15

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.176	0.588	< 0.176	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.176	0.588	< 0.176	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.882	1.18	95.3	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.088	0.294	0.412	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.062	0.176	< 0.062	mg/Kg	U
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.088	0.294	7.29	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.088	0.294	5.65	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.088	0.294	2.29	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.147	0.294	< 0.147	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.176	0.588	< 0.176	mg/Kg	U

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Laboratory Analysis Report

RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.18
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	25

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	1.000	1.33	747	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	1.27	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.071	0.200	1.20	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	55.4	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	9.53	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.003	0.005	< 0.003	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	20.7	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.167	0.333	< 0.167	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U

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Laboratory Analysis Report
Quality Control Data - Sample Dup
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 15' DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.18 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	25

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	1.000	1.33	760	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	1.13	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.071	0.200	0.933	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	39.9	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	10.40	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.003	0.005	< 0.003	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.100	0.333	22.3	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.167	0.333	< 0.167	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.200	0.667	< 0.200	mg/Kg	U

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Laboratory Analysis Report
Quality Control Data - Soil MS/MSD
RCRA-8+3 Metals 6010B/7471A

RCRA-8 METALS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 15' MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.18 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE RECEIVED	:03/30/2008	DATE ANALYZED	:04/09/2008
DATE SAMPLED	:03/31/2008		

Analyte	Units	Sample Conc.	MS Results	MSD Results	MS %Rec	MSD %Rec	Spike Conc.	QC Limits MS/MSD	RPD %	QC Limits %RPD
Antimony	mg/Kg	ND	0.00	0.00	0	0	50.0	75 - 125	0.0	25
Arsenic	mg/Kg	ND	46.2	45.5	92	91	50.0	75 - 125	1.5	25
Barium	mg/Kg	560	575	570	30	20	50.0	75 - 125	40.0	25
Beryllium	mg/Kg	0.95	47.2	45.9	93	90	50.0	75 - 125	2.9	25
Cadmium	mg/Kg	0.90	47.0	43.8	92	86	50.0	75 - 125	7.3	25
Chromium	mg/Kg	41.6	95.5	95.5	108	108	50.0	75 - 125	0.0	25
Lead	mg/Kg	7.15	56.5	50.0	99	86	50.0	75 - 125	14.1	25
Mercury	mg/Kg	ND	2.50	2.25	100	90	2.50	75 - 125	10.5	25
Nickel	mg/Kg	15.5	67.0	63.0	103	95	50.0	75 - 125	8.1	25
Selenium	mg/Kg	ND	31.4	33.5	63	67	50.0	75 - 125	6.5	25
Silver	mg/Kg	ND	2.80	3.75	6	8	50.0	75 - 125	29.0	25

* Indicate Values outside of QC limits

RPD	:	2	out of	11	outside limits
Spike Recovery	:	8	out of	22	outside limits

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Laboratory Analysis Report
Quality Control Data - Soil Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8948	TIME ANALYZED	:07:28
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	:1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	1.81	5.0	< 1.81	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.50	5.0	< 1.50	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	1.76	5.0	< 1.76	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.30	5.0	< 1.30	ug/Kg	U
1,1-Dichloroethane	1.68	1.68	5.0	< 1.68	ug/Kg	U
1,1-Dichloroethene	1.75	1.75	5.0	< 1.75	ug/Kg	U
1,1-Dichloropropene	1.68	1.68	5.0	< 1.68	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.20	5.0	< 2.20	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.10	5.0	< 2.10	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	1.93	5.0	< 1.93	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.71	5.0	< 1.71	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.36	5.0	< 2.36	ug/Kg	U
1,2-Dibromoethane	1.52	1.52	5.0	< 1.52	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.22	5.0	< 1.22	ug/Kg	U
1,2-Dichloroethane	1.67	1.67	5.0	< 1.67	ug/Kg	U
1,2-Dichloropropane	1.21	1.21	5.0	< 1.21	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.48	5.0	< 1.48	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.58	5.0	< 1.58	ug/Kg	U
1,3-Dichloropropane	1.73	1.73	5.0	< 1.73	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.56	5.0	< 1.56	ug/Kg	U
1-Chlorohexane	1.40	1.40	5.0	< 1.40	ug/Kg	U
2,2-Dichloropropane	1.79	1.79	5.0	< 1.79	ug/Kg	U
2-Butanone	7.65	7.65	25.0	< 7.65	ug/Kg	U
2-Chlorotoluene	1.58	1.58	5.0	< 1.58	ug/Kg	U
2-Hexanone	5.15	5.15	25.0	< 5.15	ug/Kg	U
4-Chlorotoluene	1.39	1.39	5.0	< 1.39	ug/Kg	U
4-Methyl-2-Pentanone	3.79	3.79	25.0	< 3.79	ug/Kg	U
Acetone	7.76	7.76	25.0	< 7.76	ug/Kg	U
Benzene	1.48	1.48	5.0	< 1.48	ug/Kg	U
Bromobenzene	1.47	1.47	5.0	< 1.47	ug/Kg	U
Bromochloromethane	1.35	1.35	5.0	< 1.35	ug/Kg	U
Bromodichloromethane	1.66	1.66	5.0	< 1.66	ug/Kg	U
Bromoform	1.63	1.63	5.0	< 1.63	ug/Kg	U
Bromomethane	2.09	2.09	5.0	< 2.09	ug/Kg	U
Carbon tetrachloride	1.99	1.99	5.0	< 1.99	ug/Kg	U

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Laboratory Analysis Report
Quality Control Data - Soil Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.58	5.0	< 1.58	ug/Kg	U
Chloroethane	2.05	2.05	5.0	< 2.05	ug/Kg	U
Chloroform	1.79	1.79	5.0	< 1.79	ug/Kg	U
Chloromethane	1.77	1.77	5.0	< 1.77	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.60	5.0	< 1.60	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.48	5.0	< 1.48	ug/Kg	U
Dibromochloromethane	1.61	1.61	5.0	< 1.61	ug/Kg	U
Dibromomethane	1.79	1.79	5.0	< 1.79	ug/Kg	U
Dichlorodifluoromethane	3.34	3.34	5.0	< 3.34	ug/Kg	U
Ethyl Benzene	2.01	2.01	5.0	< 2.01	ug/Kg	U
Hexachlorobutadiene	2.28	2.28	5.0	< 2.28	ug/Kg	U
Isopropylbenzene	1.52	1.52	5.0	< 1.52	ug/Kg	U
m/p-Xylene	3.69	3.69	10.0	< 3.69	ug/Kg	U
Methylene chloride	6.77	6.77	20.0	< 6.77	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	1.81	5.0	< 1.81	ug/Kg	U
n-Butylbenzene	1.54	1.54	5.0	< 1.54	ug/Kg	U
n-Propylbenzene	1.40	1.40	5.0	< 1.40	ug/Kg	U
Naphthalene	1.69	1.69	5.0	< 1.69	ug/Kg	U
o-Xylene	1.67	1.67	5.0	< 1.67	ug/Kg	U
p-Isopropyltoluene	1.65	1.65	5.0	< 1.65	ug/Kg	U
sec-Butylbenzene	1.45	1.45	5.0	< 1.45	ug/Kg	U
Styrene	1.68	1.68	5.0	< 1.68	ug/Kg	U
tert-Butylbenzene	1.35	1.35	5.0	< 1.35	ug/Kg	U
Tetrachloroethene	1.35	1.35	5.0	< 1.35	ug/Kg	U
Toluene	1.54	1.54	5.0	< 1.54	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.68	5.0	< 1.68	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.63	5.0	< 1.63	ug/Kg	U
Trichloroethene	1.26	1.26	5.0	< 1.26	ug/Kg	U
Trichlorofluoromethane	2.21	2.21	5.0	< 2.21	ug/Kg	U
Vinyl Chloride	1.62	1.62	5.0	< 1.62	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	**110**	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	**100**	80 - 120
Toluene-d8	50 ug/Kg	**112**	81 - 117
4-Bromofluorobenzene	50 ug/Kg	**84**	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Soil LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8949	TIME ANALYZED	:08:24
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X		

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
1,1,1,2-Tetrachloroethane	50	48.6	97	70-130	ug/Kg	
1,1,1-Trichloroethane	50	50.2	100	70-130	ug/Kg	
1,1,2,2-Tetrachloroethane	50	47.8	96	70-130	ug/Kg	
1,1,2-Trichloroethane	50	54.9	110	70-130	ug/Kg	
1,1-Dichloroethane	50	57.9	116	70-130	ug/Kg	
1,1-Dichloroethene	50	55.1	110	70-130	ug/Kg	
1,1-Dichloropropene	50	55.2	110	70-130	ug/Kg	
1,2,3-Trichlorobenzene	50	87.6	175	70-140	ug/Kg	*
1,2,3-Trichloropropane	50	51.6	103	70-130	ug/Kg	
1,2,4-Trichlorobenzene	50	87.6	175	70-140	ug/Kg	*
1,2,4-Trimethylbenzene	50	59.3	119	70-130	ug/Kg	
1,2-Dibromo-3-chloropropane	50	78.0	156	70-140	ug/Kg	*
1,2-Dibromoethane	50	51.7	103	70-130	ug/Kg	
1,2-Dichlorobenzene	50	49.6	99	70-140	ug/Kg	
1,2-Dichloroethane	50	50.8	102	70-130	ug/Kg	
1,2-Dichloropropane	50	56.8	114	70-130	ug/Kg	
1,3,5-Trimethylbenzene	50	61.3	123	70-130	ug/Kg	
1,3-Dichlorobenzene	50	56.8	114	70-140	ug/Kg	
1,3-Dichloropropane	50	56.7	113	70-130	ug/Kg	
1,4-Dichlorobenzene	50	51.7	103	70-140	ug/Kg	
1-Chlorohexane	50	67.8	136	70-140	ug/Kg	
2,2-Dichloropropane	50	52.5	105	70-130	ug/Kg	
2-Butanone	100	116	116	50-150	ug/Kg	
2-Chlorotoluene	50	60.5	121	70-130	ug/Kg	
2-Hexanone	100	129	129	50-150	ug/Kg	
4-Chlorotoluene	50	58.7	117	70-130	ug/Kg	
4-Methyl-2-Pentanone	100	81.0	81	50-150	ug/Kg	
Acetone	100	103	103	50-150	ug/Kg	
Benzene	50	57.1	114	70-130	ug/Kg	
Bromobenzene	50	53.1	106	70-130	ug/Kg	
Bromochloromethane	50	49.2	98	70-130	ug/Kg	
Bromodichloromethane	50	48.9	98	70-130	ug/Kg	
Bromoform	50	40.2	80	70-130	ug/Kg	
Bromomethane	50	44.5	89	70-130	ug/Kg	
Carbon tetrachloride	50	45.9	92	70-130	ug/Kg	

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Laboratory Analysis Report
Quality Control Data - Soil LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
Chlorobenzene	50	52.0	104	70-130	ug/Kg	
Chloroethane	50	49.4	99	70-130	ug/Kg	
Chloroform	50	53.5	107	70-130	ug/Kg	
Chloromethane	50	51.8	104	70-130	ug/Kg	
cis-1,2-Dichloroethene	50	52.8	106	70-130	ug/Kg	
cis-1,3-Dichloropropene	50	53.9	108	70-130	ug/Kg	
Dibromochloromethane	50	48.1	96	70-130	ug/Kg	
Dibromomethane	50	52.1	104	70-130	ug/Kg	
Dichlorodifluoromethane	50	49.3	99	70-130	ug/Kg	
Ethyl Benzene	50	57.3	115	70-130	ug/Kg	
Hexachlorobutadiene	50	102	204	70-140	ug/Kg	*
Isopropylbenzene	50	66.9	134	70-140	ug/Kg	
m/p-Xylene	100	115	115	70-130	ug/Kg	
Methylene chloride	50	49.8	100	70-130	ug/Kg	
Methyl-tert-Butyl Ether	50	47.4	95	70-130	ug/Kg	
n-Butylbenzene	50	72.3	145	70-140	ug/Kg	*
n-Propylbenzene	50	67.1	134	70-140	ug/Kg	
Naphthalene	50	95.0	190	70-140	ug/Kg	*
o-Xylene	50	56.8	114	70-130	ug/Kg	
p-Isopropyltoluene	50	68.9	138	70-140	ug/Kg	
sec-Butylbenzene	50	63.2	126	70-130	ug/Kg	
Styrene	50	49.8	100	70-130	ug/Kg	
tert-Butylbenzene	50	62.0	124	70-130	ug/Kg	
Tetrachloroethene	50	45.9	92	70-130	ug/Kg	
Toluene	50	57.4	115	70-130	ug/Kg	
trans-1,2-Dichloroethene	50	55.1	110	70-130	ug/Kg	
trans-1,3-Dichloropropene	50	60.4	121	70-130	ug/Kg	
Trichloroethene	50	52.8	106	70-130	ug/Kg	
Trichlorofluoromethane	50	54.8	110	70-130	ug/Kg	
Vinyl Chloride	50	48.3	97	70-130	ug/Kg	

* Indicate Values outside of QC limits

Spike Recovery : 6 out of 65 outside limits

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	100	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	98	80 - 120
Toluene-d8	50 ug/Kg	117	81 - 117
4-Bromofluorobenzene	50 ug/Kg	89	74 - 121

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Laboratory Analysis Report
Quality Control Data - Soil Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJQ
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9053	TIME ANALYZED	:13:28
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	:1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	1.81	5.0	< 1.81	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.50	5.0	< 1.50	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	1.76	5.0	< 1.76	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.30	5.0	< 1.30	ug/Kg	U
1,1-Dichloroethane	1.68	1.68	5.0	< 1.68	ug/Kg	U
1,1-Dichloroethene	1.75	1.75	5.0	< 1.75	ug/Kg	U
1,1-Dichloropropene	1.68	1.68	5.0	< 1.68	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.20	5.0	< 2.20	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.10	5.0	< 2.10	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	1.93	5.0	< 1.93	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.71	5.0	< 1.71	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.36	5.0	< 2.36	ug/Kg	U
1,2-Dibromoethane	1.52	1.52	5.0	< 1.52	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.22	5.0	< 1.22	ug/Kg	U
1,2-Dichloroethane	1.67	1.67	5.0	< 1.67	ug/Kg	U
1,2-Dichloropropane	1.21	1.21	5.0	< 1.21	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.48	5.0	< 1.48	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.58	5.0	< 1.58	ug/Kg	U
1,3-Dichloropropane	1.73	1.73	5.0	< 1.73	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.56	5.0	< 1.56	ug/Kg	U
1-Chlorohexane	1.40	1.40	5.0	< 1.40	ug/Kg	U
2,2-Dichloropropane	1.79	1.79	5.0	< 1.79	ug/Kg	U
2-Butanone	7.65	7.65	25.0	< 7.65	ug/Kg	U
2-Chlorotoluene	1.58	1.58	5.0	< 1.58	ug/Kg	U
2-Hexanone	5.15	5.15	25.0	< 5.15	ug/Kg	U
4-Chlorotoluene	1.39	1.39	5.0	< 1.39	ug/Kg	U
4-Methyl-2-Pentanone	3.79	3.79	25.0	< 3.79	ug/Kg	U
Acetone	7.76	7.76	25.0	< 7.76	ug/Kg	U
Benzene	1.48	1.48	5.0	< 1.48	ug/Kg	U
Bromobenzene	1.47	1.47	5.0	< 1.47	ug/Kg	U
Bromochloromethane	1.35	1.35	5.0	< 1.35	ug/Kg	U
Bromodichloromethane	1.66	1.66	5.0	< 1.66	ug/Kg	U
Bromoform	1.63	1.63	5.0	< 1.63	ug/Kg	U
Bromomethane	2.09	2.09	5.0	< 2.09	ug/Kg	U
Carbon tetrachloride	1.99	1.99	5.0	< 1.99	ug/Kg	U

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Laboratory Analysis Report
Quality Control Data - Soil Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJQ
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.58	5.0	< 1.58	ug/Kg	U
Chloroethane	2.05	2.05	5.0	< 2.05	ug/Kg	U
Chloroform	1.79	1.79	5.0	< 1.79	ug/Kg	U
Chloromethane	1.77	1.77	5.0	< 1.77	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.60	5.0	< 1.60	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.48	5.0	< 1.48	ug/Kg	U
Dibromochloromethane	1.61	1.61	5.0	< 1.61	ug/Kg	U
Dibromomethane	1.79	1.79	5.0	< 1.79	ug/Kg	U
Dichlorodifluoromethane	3.34	3.34	5.0	< 3.34	ug/Kg	U
Ethyl Benzene	2.01	2.01	5.0	< 2.01	ug/Kg	U
Hexachlorobutadiene	2.28	2.28	5.0	< 2.28	ug/Kg	U
Isopropylbenzene	1.52	1.52	5.0	< 1.52	ug/Kg	U
m/p-Xylene	3.69	3.69	10.0	< 3.69	ug/Kg	U
Methylene chloride	6.77	6.77	20.0	10.1	ug/Kg	J
Methyl-tert-Butyl Ether (MtBE)	1.81	1.81	5.0	< 1.81	ug/Kg	U
n-Butylbenzene	1.54	1.54	5.0	< 1.54	ug/Kg	U
n-Propylbenzene	1.40	1.40	5.0	< 1.40	ug/Kg	U
Naphthalene	1.69	1.69	5.0	< 1.69	ug/Kg	U
o-Xylene	1.67	1.67	5.0	< 1.67	ug/Kg	U
p-Isopropyltoluene	1.65	1.65	5.0	< 1.65	ug/Kg	U
sec-Butylbenzene	1.45	1.45	5.0	< 1.45	ug/Kg	U
Styrene	1.68	1.68	5.0	< 1.68	ug/Kg	U
tert-Butylbenzene	1.35	1.35	5.0	< 1.35	ug/Kg	U
Tetrachloroethene	1.35	1.35	5.0	< 1.35	ug/Kg	U
Toluene	1.54	1.54	5.0	< 1.54	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.68	5.0	< 1.68	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.63	5.0	< 1.63	ug/Kg	U
Trichloroethene	1.26	1.26	5.0	< 1.26	ug/Kg	U
Trichlorofluoromethane	2.21	2.21	5.0	< 2.21	ug/Kg	U
Vinyl Chloride	1.62	1.62	5.0	< 1.62	ug/Kg	U

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	**105**	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	**100**	80 - 120
Toluene-d8	50 ug/Kg	**107**	81 - 117
4-Bromofluorobenzene	50 ug/Kg	**90**	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Soil LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9054	TIME ANALYZED	:14:10
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X		

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
1,1,1,2-Tetrachloroethane	50	50.8	102	70-130	ug/Kg	
1,1,1-Trichloroethane	50	53.0	106	70-130	ug/Kg	
1,1,2,2-Tetrachloroethane	50	46.7	93	70-130	ug/Kg	
1,1,2-Trichloroethane	50	54.0	108	70-130	ug/Kg	
1,1-Dichloroethane	50	55.7	111	70-130	ug/Kg	
1,1-Dichloroethene	50	51.9	104	70-130	ug/Kg	
1,1-Dichloropropene	50	57.0	114	70-130	ug/Kg	
1,2,3-Trichlorobenzene	50	70.8	142	70-140	ug/Kg	*
1,2,3-Trichloropropane	50	52.3	105	70-130	ug/Kg	
1,2,4-Trichlorobenzene	50	70.8	142	70-140	ug/Kg	*
1,2,4-Trimethylbenzene	50	56.2	112	70-130	ug/Kg	
1,2-Dibromo-3-chloropropane	50	75.9	152	70-140	ug/Kg	*
1,2-Dibromoethane	50	55.7	111	70-130	ug/Kg	
1,2-Dichlorobenzene	50	50.0	100	70-140	ug/Kg	
1,2-Dichloroethane	50	57.3	115	70-130	ug/Kg	
1,2-Dichloropropane	50	56.0	112	70-130	ug/Kg	
1,3,5-Trimethylbenzene	50	57.7	115	70-130	ug/Kg	
1,3-Dichlorobenzene	50	52.5	105	70-140	ug/Kg	
1,3-Dichloropropane	50	58.0	116	70-130	ug/Kg	
1,4-Dichlorobenzene	50	49.5	99	70-140	ug/Kg	
1-Chlorohexane	50	60.0	120	70-140	ug/Kg	
2,2-Dichloropropane	50	53.3	107	70-130	ug/Kg	
2-Butanone	100	129	129	50-150	ug/Kg	
2-Chlorotoluene	50	56.4	113	70-130	ug/Kg	
2-Hexanone	100	128	128	50-150	ug/Kg	
4-Chlorotoluene	50	55.1	110	70-130	ug/Kg	
4-Methyl-2-Pentanone	100	111	111	50-150	ug/Kg	
Acetone	100	113	113	50-150	ug/Kg	
Benzene	50	52.5	105	70-130	ug/Kg	
Bromobenzene	50	54.6	109	70-130	ug/Kg	
Bromochloromethane	50	53.2	106	70-130	ug/Kg	
Bromodichloromethane	50	56.0	112	70-130	ug/Kg	
Bromoform	50	48.2	96	70-130	ug/Kg	
Bromomethane	50	52.5	105	70-130	ug/Kg	
Carbon tetrachloride	50	51.7	103	70-130	ug/Kg	

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Laboratory Analysis Report
Quality Control Data - Soil LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJK
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
Chlorobenzene	50	52.0	104	70-130	ug/Kg	
Chloroethane	50	53.7	107	70-130	ug/Kg	
Chloroform	50	52.8	106	70-130	ug/Kg	
Chloromethane	50	47.1	94	70-130	ug/Kg	
cis-1,2-Dichloroethene	50	52.7	105	70-130	ug/Kg	
cis-1,3-Dichloropropene	50	57.4	115	70-130	ug/Kg	
Dibromochloromethane	50	54.4	109	70-130	ug/Kg	
Dibromomethane	50	55.9	112	70-130	ug/Kg	
Dichlorodifluoromethane	50	48.0	96	70-130	ug/Kg	
Ethyl Benzene	50	53.6	107	70-130	ug/Kg	
Hexachlorobutadiene	50	74.2	148	70-140	ug/Kg	*
Isopropylbenzene	50	62.3	125	70-140	ug/Kg	
m/p-Xylene	100	109	109	70-130	ug/Kg	
Methylene chloride	50	53.8	108	70-130	ug/Kg	
Methyl-tert-Butyl Ether	50	57.2	114	70-130	ug/Kg	
n-Butylbenzene	50	63.6	127	70-140	ug/Kg	
n-Propylbenzene	50	60.3	121	70-140	ug/Kg	
Naphthalene	50	81.1	162	70-140	ug/Kg	*
o-Xylene	50	57.7	115	70-130	ug/Kg	
p-Isopropyltoluene	50	63.4	127	70-140	ug/Kg	
sec-Butylbenzene	50	57.7	115	70-130	ug/Kg	
Styrene	50	50.3	101	70-130	ug/Kg	
tert-Butylbenzene	50	58.3	117	70-130	ug/Kg	
Tetrachloroethene	50	50.5	101	70-130	ug/Kg	
Toluene	50	52.6	105	70-130	ug/Kg	
trans-1,2-Dichloroethene	50	51.9	104	70-130	ug/Kg	
trans-1,3-Dichloropropene	50	59.1	118	70-130	ug/Kg	
Trichloroethene	50	53.2	106	70-130	ug/Kg	
Trichlorofluoromethane	50	51.5	103	70-130	ug/Kg	
Vinyl Chloride	50	47.4	95	70-130	ug/Kg	

* Indicate Values outside of QC limits

Spike Recovery : 5 out of 65 outside limits

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	99	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	98	80 - 120
Toluene-d8	50 ug/Kg	103	81 - 117
4-Bromofluorobenzene	50 ug/Kg	89	74 - 121

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.01
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9055	TIME ANALYZED	:14:44
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	16

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.15	5.95	< 2.15	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.79	5.95	< 1.79	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.10	5.95	< 2.10	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.55	5.95	< 1.55	ug/Kg	U
1,1-Dichloroethane	1.68	2.00	5.95	< 2.00	ug/Kg	U
1,1-Dichloroethene	1.75	2.08	5.95	< 2.08	ug/Kg	U
1,1-Dichloropropene	1.68	2.00	5.95	< 2.00	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.62	5.95	< 2.62	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.50	5.95	< 2.50	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.30	5.95	< 2.30	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.04	5.95	< 2.04	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.81	5.95	< 2.81	ug/Kg	U
1,2-Dibromoethane	1.52	1.81	5.95	< 1.81	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.45	5.95	< 1.45	ug/Kg	U
1,2-Dichloroethane	1.67	1.99	5.95	< 1.99	ug/Kg	U
1,2-Dichloropropane	1.21	1.44	5.95	< 1.44	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.76	5.95	< 1.76	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.88	5.95	< 1.88	ug/Kg	U
1,3-Dichloropropane	1.73	2.06	5.95	< 2.06	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.86	5.95	< 1.86	ug/Kg	U
1-Chlorohexane	1.40	1.67	5.95	< 1.67	ug/Kg	U
2,2-Dichloropropane	1.79	2.13	5.95	< 2.13	ug/Kg	U
2-Butanone	7.65	9.11	29.8	< 9.11	ug/Kg	U
2-Chlorotoluene	1.58	1.88	5.95	< 1.88	ug/Kg	U
2-Hexanone	5.15	6.13	29.8	< 6.13	ug/Kg	U
4-Chlorotoluene	1.39	1.65	5.95	< 1.65	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.51	29.8	< 4.51	ug/Kg	U
Acetone	7.76	9.24	29.8	10.3	ug/Kg	J
Benzene	1.48	1.76	5.95	< 1.76	ug/Kg	U
Bromobenzene	1.47	1.75	5.95	< 1.75	ug/Kg	U
Bromochloromethane	1.35	1.61	5.95	< 1.61	ug/Kg	U
Bromodichloromethane	1.66	1.98	5.95	< 1.98	ug/Kg	U
Bromoform	1.63	1.94	5.95	< 1.94	ug/Kg	U
Bromomethane	2.09	2.49	5.95	< 2.49	ug/Kg	U
Carbon tetrachloride	1.99	2.37	5.95	< 2.37	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.01
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.88	5.95	< 1.88	ug/Kg	U
Chloroethane	2.05	2.44	5.95	< 2.44	ug/Kg	U
Chloroform	1.79	2.13	5.95	< 2.13	ug/Kg	U
Chloromethane	1.77	2.11	5.95	< 2.11	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.90	5.95	< 1.90	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.76	5.95	< 1.76	ug/Kg	U
Dibromochloromethane	1.61	1.92	5.95	< 1.92	ug/Kg	U
Dibromomethane	1.79	2.13	5.95	< 2.13	ug/Kg	U
Dichlorodifluoromethane	3.34	3.98	5.95	< 3.98	ug/Kg	U
Ethyl Benzene	2.01	2.39	5.95	< 2.39	ug/Kg	U
Hexachlorobutadiene	2.28	2.71	5.95	< 2.71	ug/Kg	U
Isopropylbenzene	1.52	1.81	5.95	< 1.81	ug/Kg	U
m/p-Xylene	3.69	4.39	11.9	< 4.39	ug/Kg	U
Methylene chloride	6.77	8.06	23.8	12.6	ug/Kg	JB
Methyl-tert-Butyl Ether (MtBE)	1.81	2.15	5.95	< 2.15	ug/Kg	U
n-Butylbenzene	1.54	1.83	5.95	< 1.83	ug/Kg	U
n-Propylbenzene	1.40	1.67	5.95	< 1.67	ug/Kg	U
Naphthalene	1.69	2.01	5.95	< 2.01	ug/Kg	U
o-Xylene	1.67	1.99	5.95	< 1.99	ug/Kg	U
p-Isopropyltoluene	1.65	1.96	5.95	< 1.96	ug/Kg	U
sec-Butylbenzene	1.45	1.73	5.95	< 1.73	ug/Kg	U
Styrene	1.68	2.00	5.95	< 2.00	ug/Kg	U
tert-Butylbenzene	1.35	1.61	5.95	< 1.61	ug/Kg	U
Tetrachloroethene	1.35	1.61	5.95	< 1.61	ug/Kg	U
Toluene	1.54	1.83	5.95	< 1.83	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.00	5.95	< 2.00	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.94	5.95	< 1.94	ug/Kg	U
Trichloroethene	1.26	1.50	5.95	< 1.50	ug/Kg	U
Trichlorofluoromethane	2.21	2.63	5.95	< 2.63	ug/Kg	U
Vinyl Chloride	1.62	1.93	5.95	< 1.93	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	103	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	102	80 - 120
Toluene-d8	50 ug/Kg	107	81 - 117
4-Bromofluorobenzene	50 ug/Kg	89	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.02
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8951	TIME ANALYZED	:09:31
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	37

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.87	7.94	< 2.87	ug/Kg	U
1,1,1-Trichloroethane	1.50	2.38	7.94	< 2.38	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.79	7.94	< 2.79	ug/Kg	U
1,1,2-Trichloroethane	1.30	2.06	7.94	< 2.06	ug/Kg	U
1,1-Dichloroethane	1.68	2.67	7.94	< 2.67	ug/Kg	U
1,1-Dichloroethene	1.75	2.78	7.94	< 2.78	ug/Kg	U
1,1-Dichloropropene	1.68	2.67	7.94	< 2.67	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	3.49	7.94	< 3.49	ug/Kg	U
1,2,3-Trichloropropane	2.10	3.33	7.94	< 3.33	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	3.06	7.94	< 3.06	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.71	7.94	< 2.71	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	3.75	7.94	< 3.75	ug/Kg	U
1,2-Dibromoethane	1.52	2.41	7.94	< 2.41	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.94	7.94	< 1.94	ug/Kg	U
1,2-Dichloroethane	1.67	2.65	7.94	< 2.65	ug/Kg	U
1,2-Dichloropropane	1.21	1.92	7.94	< 1.92	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	2.35	7.94	< 2.35	ug/Kg	U
1,3-Dichlorobenzene	1.58	2.51	7.94	< 2.51	ug/Kg	U
1,3-Dichloropropane	1.73	2.75	7.94	< 2.75	ug/Kg	U
1,4-Dichlorobenzene	1.56	2.48	7.94	< 2.48	ug/Kg	U
1-Chlorohexane	1.40	2.22	7.94	< 2.22	ug/Kg	U
2,2-Dichloropropane	1.79	2.84	7.94	< 2.84	ug/Kg	U
2-Butanone	7.65	12.14	39.7	< 12.1	ug/Kg	U
2-Chlorotoluene	1.58	2.51	7.94	< 2.51	ug/Kg	U
2-Hexanone	5.15	8.17	39.7	< 8.17	ug/Kg	U
4-Chlorotoluene	1.39	2.21	7.94	< 2.21	ug/Kg	U
4-Methyl-2-Pentanone	3.79	6.02	39.7	< 6.02	ug/Kg	U
Acetone	7.76	12.32	39.7	< 12.3	ug/Kg	U
Benzene	1.48	2.35	7.94	< 2.35	ug/Kg	U
Bromobenzene	1.47	2.33	7.94	< 2.33	ug/Kg	U
Bromochloromethane	1.35	2.14	7.94	< 2.14	ug/Kg	U
Bromodichloromethane	1.66	2.63	7.94	< 2.63	ug/Kg	U
Bromoform	1.63	2.59	7.94	< 2.59	ug/Kg	U
Bromomethane	2.09	3.32	7.94	< 3.32	ug/Kg	U
Carbon tetrachloride	1.99	3.16	7.94	< 3.16	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.02
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	2.51	7.94	< 2.51	ug/Kg	U
Chloroethane	2.05	3.25	7.94	< 3.25	ug/Kg	U
Chloroform	1.79	2.84	7.94	< 2.84	ug/Kg	U
Chloromethane	1.77	2.81	7.94	< 2.81	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.54	7.94	< 2.54	ug/Kg	U
cis-1,3-Dichloropropene	1.48	2.35	7.94	< 2.35	ug/Kg	U
Dibromochloromethane	1.61	2.56	7.94	< 2.56	ug/Kg	U
Dibromomethane	1.79	2.84	7.94	< 2.84	ug/Kg	U
Dichlorodifluoromethane	3.34	5.30	7.94	< 5.30	ug/Kg	U
Ethyl Benzene	2.01	3.19	7.94	< 3.19	ug/Kg	U
Hexachlorobutadiene	2.28	3.62	7.94	< 3.62	ug/Kg	U
Isopropylbenzene	1.52	2.41	7.94	< 2.41	ug/Kg	U
m/p-Xylene	3.69	5.86	15.9	< 5.86	ug/Kg	U
Methylene chloride	6.77	10.75	31.7	< 10.7	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.87	7.94	< 2.87	ug/Kg	U
n-Butylbenzene	1.54	2.44	7.94	< 2.44	ug/Kg	U
n-Propylbenzene	1.40	2.22	7.94	< 2.22	ug/Kg	U
Naphthalene	1.69	2.68	7.94	< 2.68	ug/Kg	U
o-Xylene	1.67	2.65	7.94	< 2.65	ug/Kg	U
p-Isopropyltoluene	1.65	2.62	7.94	< 2.62	ug/Kg	U
sec-Butylbenzene	1.45	2.30	7.94	< 2.30	ug/Kg	U
Styrene	1.68	2.67	7.94	< 2.67	ug/Kg	U
tert-Butylbenzene	1.35	2.14	7.94	< 2.14	ug/Kg	U
Tetrachloroethene	1.35	2.14	7.94	< 2.14	ug/Kg	U
Toluene	1.54	2.44	7.94	< 2.44	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.67	7.94	< 2.67	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.59	7.94	< 2.59	ug/Kg	U
Trichloroethene	1.26	2.00	7.94	< 2.00	ug/Kg	U
Trichlorofluoromethane	2.21	3.51	7.94	< 3.51	ug/Kg	U
Vinyl Chloride	1.62	2.57	7.94	< 2.57	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	112	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	99	80 - 120
Toluene-d8	50 ug/Kg	110	81 - 117
4-Bromofluorobenzene	50 ug/Kg	83	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 3'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.03
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9065	TIME ANALYZED	:20:25
PURGE VOLUME	:0.5 g	ANALYST	:SB
DILUTION	: 10X	PERCENT MOISTURE	14

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	21.0	58.1	< 21.0	ug/Kg	U
1,1,1-Trichloroethane	1.50	17.4	58.1	< 17.4	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	20.5	58.1	< 20.5	ug/Kg	U
1,1,2-Trichloroethane	1.30	15.1	58.1	< 15.1	ug/Kg	U
1,1-Dichloroethane	1.68	19.5	58.1	< 19.5	ug/Kg	U
1,1-Dichloroethene	1.75	20.3	58.1	< 20.3	ug/Kg	U
1,1-Dichloropropene	1.68	19.5	58.1	< 19.5	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	25.6	58.1	< 25.6	ug/Kg	U
1,2,3-Trichloropropane	2.10	24.4	58.1	< 24.4	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	22.4	58.1	< 22.4	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	19.9	58.1	4,178	ug/Kg	
1,2-Dibromo-3-chloropropane	2.36	27.4	58.1	< 27.4	ug/Kg	U
1,2-Dibromoethane	1.52	17.7	58.1	< 17.7	ug/Kg	U
1,2-Dichlorobenzene	1.22	14.2	58.1	< 14.2	ug/Kg	U
1,2-Dichloroethane	1.67	19.4	58.1	< 19.4	ug/Kg	U
1,2-Dichloropropane	1.21	14.1	58.1	< 14.1	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	17.2	58.1	1,738	ug/Kg	
1,3-Dichlorobenzene	1.58	18.4	58.1	< 18.4	ug/Kg	U
1,3-Dichloropropane	1.73	20.1	58.1	< 20.1	ug/Kg	U
1,4-Dichlorobenzene	1.56	18.1	58.1	< 18.1	ug/Kg	U
1-Chlorohexane	1.40	16.3	58.1	< 16.3	ug/Kg	U
2,2-Dichloropropane	1.79	20.8	58.1	< 20.8	ug/Kg	U
2-Butanone	7.65	89.0	291	< 89.0	ug/Kg	U
2-Chlorotoluene	1.58	18.4	58.1	< 18.4	ug/Kg	U
2-Hexanone	5.15	59.9	291	< 59.9	ug/Kg	U
4-Chlorotoluene	1.39	16.2	58.1	< 16.2	ug/Kg	U
4-Methyl-2-Pentanone	3.79	44.1	291	< 44.1	ug/Kg	U
Acetone	7.76	90.2	291	< 90.2	ug/Kg	U
Benzene	1.48	17.2	58.1	< 17.2	ug/Kg	U
Bromobenzene	1.47	17.1	58.1	< 17.1	ug/Kg	U
Bromochloromethane	1.35	15.7	58.1	< 15.7	ug/Kg	U
Bromodichloromethane	1.66	19.3	58.1	< 19.3	ug/Kg	U
Bromoform	1.63	19.0	58.1	< 19.0	ug/Kg	U
Bromomethane	2.09	24.3	58.1	< 24.3	ug/Kg	U
Carbon tetrachloride	1.99	23.1	58.1	< 23.1	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 3'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.03
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	18.4	58.1	< 18.4	ug/Kg	U
Chloroethane	2.05	23.8	58.1	< 23.8	ug/Kg	U
Chloroform	1.79	20.8	58.1	< 20.8	ug/Kg	U
Chloromethane	1.77	20.6	58.1	< 20.6	ug/Kg	U
cis-1,2-Dichloroethene	1.60	18.6	58.1	< 18.6	ug/Kg	U
cis-1,3-Dichloropropene	1.48	17.2	58.1	< 17.2	ug/Kg	U
Dibromochloromethane	1.61	18.7	58.1	< 18.7	ug/Kg	U
Dibromomethane	1.79	20.8	58.1	< 20.8	ug/Kg	U
Dichlorodifluoromethane	3.34	38.8	58.1	< 38.8	ug/Kg	U
Ethyl Benzene	2.01	23.4	58.1	< 23.4	ug/Kg	U
Hexachlorobutadiene	2.28	26.5	58.1	< 26.5	ug/Kg	U
Isopropylbenzene	1.52	17.7	58.1	< 17.7	ug/Kg	U
m/p-Xylene	3.69	42.9	116	138	ug/Kg	
Methylene chloride	6.77	78.7	233	94.9	ug/Kg	JB
Methyl-tert-Butyl Ether (MtBE)	1.81	21.0	58.1	< 21.0	ug/Kg	U
n-Butylbenzene	1.54	17.9	58.1	< 17.9	ug/Kg	U
n-Propylbenzene	1.40	16.3	58.1	460	ug/Kg	
Naphthalene	1.69	19.7	58.1	1,233	ug/Kg	
o-Xylene	1.67	19.4	58.1	134	ug/Kg	
p-Isopropyltoluene	1.65	19.2	58.1	1,259	ug/Kg	
sec-Butylbenzene	1.45	16.9	58.1	710	ug/Kg	
Styrene	1.68	19.5	58.1	< 19.5	ug/Kg	U
tert-Butylbenzene	1.35	15.7	58.1	< 15.7	ug/Kg	U
Tetrachloroethene	1.35	15.7	58.1	< 15.7	ug/Kg	U
Toluene	1.54	17.9	58.1	< 17.9	ug/Kg	U
trans-1,2-Dichloroethene	1.68	19.5	58.1	< 19.5	ug/Kg	U
trans-1,3-Dichloropropene	1.63	19.0	58.1	< 19.0	ug/Kg	U
Trichloroethene	1.26	14.7	58.1	< 14.7	ug/Kg	U
Trichlorofluoromethane	2.21	25.7	58.1	< 25.7	ug/Kg	U
Vinyl Chloride	1.62	18.8	58.1	< 18.8	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	122	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	129*	80 - 120
Toluene-d8	50 ug/Kg	88	81 - 117
4-Bromofluorobenzene	50 ug/Kg	136*	74 - 121

*Surrogate recovery is outside QC limits. Sample results were confirmed by re-analysis.

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.04
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9060	TIME ANALYZED	:17:34
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	17

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.18	6.02	< 2.18	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.81	6.02	< 1.81	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.12	6.02	< 2.12	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.57	6.02	< 1.57	ug/Kg	U
1,1-Dichloroethane	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,1-Dichloroethene	1.75	2.11	6.02	< 2.11	ug/Kg	U
1,1-Dichloropropene	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.65	6.02	< 2.65	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.53	6.02	< 2.53	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.33	6.02	< 2.33	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.06	6.02	< 2.06	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.84	6.02	< 2.84	ug/Kg	U
1,2-Dibromoethane	1.52	1.83	6.02	< 1.83	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.47	6.02	< 1.47	ug/Kg	U
1,2-Dichloroethane	1.67	2.01	6.02	< 2.01	ug/Kg	U
1,2-Dichloropropane	1.21	1.46	6.02	< 1.46	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
1,3-Dichloropropane	1.73	2.08	6.02	< 2.08	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.88	6.02	< 1.88	ug/Kg	U
1-Chlorohexane	1.40	1.69	6.02	< 1.69	ug/Kg	U
2,2-Dichloropropane	1.79	2.16	6.02	< 2.16	ug/Kg	U
2-Butanone	7.65	9.22	30.1	28.2	ug/Kg	J
2-Chlorotoluene	1.58	1.90	6.02	< 1.90	ug/Kg	U
2-Hexanone	5.15	6.20	30.1	< 6.20	ug/Kg	U
4-Chlorotoluene	1.39	1.67	6.02	< 1.67	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.57	30.1	< 4.57	ug/Kg	U
Acetone	7.76	9.35	30.1	144	ug/Kg	
Benzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Bromobenzene	1.47	1.77	6.02	< 1.77	ug/Kg	U
Bromochloromethane	1.35	1.63	6.02	< 1.63	ug/Kg	U
Bromodichloromethane	1.66	2.00	6.02	< 2.00	ug/Kg	U
Bromoform	1.63	1.96	6.02	< 1.96	ug/Kg	U
Bromomethane	2.09	2.52	6.02	< 2.52	ug/Kg	U
Carbon tetrachloride	1.99	2.40	6.02	< 2.40	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.04
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
Chloroethane	2.05	2.47	6.02	< 2.47	ug/Kg	U
Chloroform	1.79	2.16	6.02	< 2.16	ug/Kg	U
Chloromethane	1.77	2.13	6.02	< 2.13	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.93	6.02	< 1.93	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Dibromochloromethane	1.61	1.94	6.02	< 1.94	ug/Kg	U
Dibromomethane	1.79	2.16	6.02	< 2.16	ug/Kg	U
Dichlorodifluoromethane	3.34	4.02	6.02	< 4.02	ug/Kg	U
Ethyl Benzene	2.01	2.42	6.02	< 2.42	ug/Kg	U
Hexachlorobutadiene	2.28	2.75	6.02	< 2.75	ug/Kg	U
Isopropylbenzene	1.52	1.83	6.02	< 1.83	ug/Kg	U
m/p-Xylene	3.69	4.45	12.0	< 4.45	ug/Kg	U
Methylene chloride	6.77	8.16	24.1	14.7	ug/Kg	J
Methyl-tert-Butyl Ether (MtBE)	1.81	2.18	6.02	< 2.18	ug/Kg	U
n-Butylbenzene	1.54	1.86	6.02	< 1.86	ug/Kg	U
n-Propylbenzene	1.40	1.69	6.02	< 1.69	ug/Kg	U
Naphthalene	1.69	2.04	6.02	8.93	ug/Kg	
o-Xylene	1.67	2.01	6.02	< 2.01	ug/Kg	U
p-Isopropyltoluene	1.65	1.99	6.02	< 1.99	ug/Kg	U
sec-Butylbenzene	1.45	1.75	6.02	< 1.75	ug/Kg	U
Styrene	1.68	2.02	6.02	< 2.02	ug/Kg	U
tert-Butylbenzene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Tetrachloroethene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Toluene	1.54	1.86	6.02	< 1.86	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.02	6.02	< 2.02	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.96	6.02	< 1.96	ug/Kg	U
Trichloroethene	1.26	1.52	6.02	< 1.52	ug/Kg	U
Trichlorofluoromethane	2.21	2.66	6.02	< 2.66	ug/Kg	U
Vinyl Chloride	1.62	1.95	6.02	< 1.95	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	112	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	116	80 - 120
Toluene-d8	50 ug/Kg	114	81 - 117
4-Bromofluorobenzene	50 ug/Kg	78	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.05
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8954	TIME ANALYZED	:11:43
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	23

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.35	6.49	< 2.35	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.95	6.49	< 1.95	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.29	6.49	< 2.29	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.69	6.49	< 1.69	ug/Kg	U
1,1-Dichloroethane	1.68	2.18	6.49	< 2.18	ug/Kg	U
1,1-Dichloroethene	1.75	2.27	6.49	< 2.27	ug/Kg	U
1,1-Dichloropropene	1.68	2.18	6.49	< 2.18	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.86	6.49	< 2.86	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.73	6.49	< 2.73	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.51	6.49	< 2.51	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.22	6.49	< 2.22	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	3.06	6.49	< 3.06	ug/Kg	U
1,2-Dibromoethane	1.52	1.97	6.49	< 1.97	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.58	6.49	< 1.58	ug/Kg	U
1,2-Dichloroethane	1.67	2.17	6.49	< 2.17	ug/Kg	U
1,2-Dichloropropane	1.21	1.57	6.49	< 1.57	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.92	6.49	< 1.92	ug/Kg	U
1,3-Dichlorobenzene	1.58	2.05	6.49	< 2.05	ug/Kg	U
1,3-Dichloropropane	1.73	2.25	6.49	< 2.25	ug/Kg	U
1,4-Dichlorobenzene	1.56	2.03	6.49	< 2.03	ug/Kg	U
1-Chlorohexane	1.40	1.82	6.49	< 1.82	ug/Kg	U
2,2-Dichloropropane	1.79	2.32	6.49	< 2.32	ug/Kg	U
2-Butanone	7.65	9.94	32.5	< 9.94	ug/Kg	U
2-Chlorotoluene	1.58	2.05	6.49	< 2.05	ug/Kg	U
2-Hexanone	5.15	6.69	32.5	< 6.69	ug/Kg	U
4-Chlorotoluene	1.39	1.81	6.49	< 1.81	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.92	32.5	< 4.92	ug/Kg	U
Acetone	7.76	10.08	32.5	< 10.1	ug/Kg	U
Benzene	1.48	1.92	6.49	< 1.92	ug/Kg	U
Bromobenzene	1.47	1.91	6.49	< 1.91	ug/Kg	U
Bromochloromethane	1.35	1.75	6.49	< 1.75	ug/Kg	U
Bromodichloromethane	1.66	2.16	6.49	< 2.16	ug/Kg	U
Bromoform	1.63	2.12	6.49	< 2.12	ug/Kg	U
Bromomethane	2.09	2.71	6.49	< 2.71	ug/Kg	U
Carbon tetrachloride	1.99	2.58	6.49	< 2.58	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B3A - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.05
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	2.05	6.49	< 2.05	ug/Kg	U
Chloroethane	2.05	2.66	6.49	< 2.66	ug/Kg	U
Chloroform	1.79	2.32	6.49	< 2.32	ug/Kg	U
Chloromethane	1.77	2.30	6.49	< 2.30	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.08	6.49	< 2.08	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.92	6.49	< 1.92	ug/Kg	U
Dibromochloromethane	1.61	2.09	6.49	< 2.09	ug/Kg	U
Dibromomethane	1.79	2.32	6.49	< 2.32	ug/Kg	U
Dichlorodifluoromethane	3.34	4.34	6.49	< 4.34	ug/Kg	U
Ethyl Benzene	2.01	2.61	6.49	< 2.61	ug/Kg	U
Hexachlorobutadiene	2.28	2.96	6.49	< 2.96	ug/Kg	U
Isopropylbenzene	1.52	1.97	6.49	< 1.97	ug/Kg	U
m/p-Xylene	3.69	4.79	13.0	< 4.79	ug/Kg	U
Methylene chloride	6.77	8.79	26.0	< 8.79	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.35	6.49	< 2.35	ug/Kg	U
n-Butylbenzene	1.54	2.00	6.49	< 2.00	ug/Kg	U
n-Propylbenzene	1.40	1.82	6.49	< 1.82	ug/Kg	U
Naphthalene	1.69	2.19	6.49	< 2.19	ug/Kg	U
o-Xylene	1.67	2.17	6.49	< 2.17	ug/Kg	U
p-Isopropyltoluene	1.65	2.14	6.49	< 2.14	ug/Kg	U
sec-Butylbenzene	1.45	1.88	6.49	< 1.88	ug/Kg	U
Styrene	1.68	2.18	6.49	< 2.18	ug/Kg	U
tert-Butylbenzene	1.35	1.75	6.49	< 1.75	ug/Kg	U
Tetrachloroethene	1.35	1.75	6.49	< 1.75	ug/Kg	U
Toluene	1.54	2.00	6.49	< 2.00	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.18	6.49	< 2.18	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.12	6.49	< 2.12	ug/Kg	U
Trichloroethene	1.26	1.64	6.49	< 1.64	ug/Kg	U
Trichlorofluoromethane	2.21	2.87	6.49	< 2.87	ug/Kg	U
Vinyl Chloride	1.62	2.10	6.49	< 2.10	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	108	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	94	80 - 120
Toluene-d8	50 ug/Kg	112	81 - 117
4-Bromofluorobenzene	50 ug/Kg	84	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.06
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8955	TIME ANALYZED	:12:17
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	13

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.08	5.75	< 2.08	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.72	5.75	< 1.72	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.02	5.75	< 2.02	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.49	5.75	< 1.49	ug/Kg	U
1,1-Dichloroethane	1.68	1.93	5.75	< 1.93	ug/Kg	U
1,1-Dichloroethene	1.75	2.01	5.75	< 2.01	ug/Kg	U
1,1-Dichloropropene	1.68	1.93	5.75	< 1.93	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.53	5.75	< 2.53	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.41	5.75	< 2.41	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.22	5.75	< 2.22	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.97	5.75	< 1.97	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.71	5.75	< 2.71	ug/Kg	U
1,2-Dibromoethane	1.52	1.75	5.75	< 1.75	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.40	5.75	< 1.40	ug/Kg	U
1,2-Dichloroethane	1.67	1.92	5.75	< 1.92	ug/Kg	U
1,2-Dichloropropane	1.21	1.39	5.75	< 1.39	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.70	5.75	< 1.70	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.82	5.75	< 1.82	ug/Kg	U
1,3-Dichloropropane	1.73	1.99	5.75	< 1.99	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.79	5.75	< 1.79	ug/Kg	U
1-Chlorohexane	1.40	1.61	5.75	< 1.61	ug/Kg	U
2,2-Dichloropropane	1.79	2.06	5.75	< 2.06	ug/Kg	U
2-Butanone	7.65	8.79	28.7	< 8.79	ug/Kg	U
2-Chlorotoluene	1.58	1.82	5.75	< 1.82	ug/Kg	U
2-Hexanone	5.15	5.92	28.7	< 5.92	ug/Kg	U
4-Chlorotoluene	1.39	1.60	5.75	< 1.60	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.36	28.7	< 4.36	ug/Kg	U
Acetone	7.76	8.92	28.7	< 8.92	ug/Kg	U
Benzene	1.48	1.70	5.75	< 1.70	ug/Kg	U
Bromobenzene	1.47	1.69	5.75	< 1.69	ug/Kg	U
Bromochloromethane	1.35	1.55	5.75	< 1.55	ug/Kg	U
Bromodichloromethane	1.66	1.91	5.75	< 1.91	ug/Kg	U
Bromoform	1.63	1.87	5.75	< 1.87	ug/Kg	U
Bromomethane	2.09	2.40	5.75	< 2.40	ug/Kg	U
Carbon tetrachloride	1.99	2.29	5.75	< 2.29	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 1'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.06
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.82	5.75	< 1.82	ug/Kg	U
Chloroethane	2.05	2.36	5.75	< 2.36	ug/Kg	U
Chloroform	1.79	2.06	5.75	< 2.06	ug/Kg	U
Chloromethane	1.77	2.03	5.75	< 2.03	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.84	5.75	< 1.84	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.70	5.75	< 1.70	ug/Kg	U
Dibromochloromethane	1.61	1.85	5.75	< 1.85	ug/Kg	U
Dibromomethane	1.79	2.06	5.75	< 2.06	ug/Kg	U
Dichlorodifluoromethane	3.34	3.84	5.75	< 3.84	ug/Kg	U
Ethyl Benzene	2.01	2.31	5.75	< 2.31	ug/Kg	U
Hexachlorobutadiene	2.28	2.62	5.75	< 2.62	ug/Kg	U
Isopropylbenzene	1.52	1.75	5.75	< 1.75	ug/Kg	U
m/p-Xylene	3.69	4.24	11.5	< 4.24	ug/Kg	U
Methylene chloride	6.77	7.78	23.0	< 7.78	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.08	5.75	< 2.08	ug/Kg	U
n-Butylbenzene	1.54	1.77	5.75	< 1.77	ug/Kg	U
n-Propylbenzene	1.40	1.61	5.75	< 1.61	ug/Kg	U
Naphthalene	1.69	1.94	5.75	< 1.94	ug/Kg	U
o-Xylene	1.67	1.92	5.75	< 1.92	ug/Kg	U
p-Isopropyltoluene	1.65	1.90	5.75	< 1.90	ug/Kg	U
sec-Butylbenzene	1.45	1.67	5.75	< 1.67	ug/Kg	U
Styrene	1.68	1.93	5.75	< 1.93	ug/Kg	U
tert-Butylbenzene	1.35	1.55	5.75	< 1.55	ug/Kg	U
Tetrachloroethene	1.35	1.55	5.75	< 1.55	ug/Kg	U
Toluene	1.54	1.77	5.75	< 1.77	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.93	5.75	< 1.93	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.87	5.75	< 1.87	ug/Kg	U
Trichloroethene	1.26	1.45	5.75	< 1.45	ug/Kg	U
Trichlorofluoromethane	2.21	2.54	5.75	< 2.54	ug/Kg	U
Vinyl Chloride	1.62	1.86	5.75	< 1.86	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	118	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	99	80 - 120
Toluene-d8	50 ug/Kg	116	81 - 117
4-Bromofluorobenzene	50 ug/Kg	79	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 14'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.07
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8956	TIME ANALYZED	:12:51
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	30

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.59	7.14	< 2.59	ug/Kg	U
1,1,1-Trichloroethane	1.50	2.14	7.14	< 2.14	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.51	7.14	< 2.51	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.86	7.14	< 1.86	ug/Kg	U
1,1-Dichloroethane	1.68	2.40	7.14	< 2.40	ug/Kg	U
1,1-Dichloroethene	1.75	2.50	7.14	< 2.50	ug/Kg	U
1,1-Dichloropropene	1.68	2.40	7.14	< 2.40	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	3.14	7.14	< 3.14	ug/Kg	U
1,2,3-Trichloropropane	2.10	3.00	7.14	< 3.00	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.76	7.14	< 2.76	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.44	7.14	< 2.44	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	3.37	7.14	< 3.37	ug/Kg	U
1,2-Dibromoethane	1.52	2.17	7.14	< 2.17	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.74	7.14	< 1.74	ug/Kg	U
1,2-Dichloroethane	1.67	2.39	7.14	< 2.39	ug/Kg	U
1,2-Dichloropropane	1.21	1.73	7.14	< 1.73	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	2.11	7.14	< 2.11	ug/Kg	U
1,3-Dichlorobenzene	1.58	2.26	7.14	< 2.26	ug/Kg	U
1,3-Dichloropropane	1.73	2.47	7.14	< 2.47	ug/Kg	U
1,4-Dichlorobenzene	1.56	2.23	7.14	< 2.23	ug/Kg	U
1-Chlorohexane	1.40	2.00	7.14	< 2.00	ug/Kg	U
2,2-Dichloropropane	1.79	2.56	7.14	< 2.56	ug/Kg	U
2-Butanone	7.65	10.93	35.7	< 10.9	ug/Kg	U
2-Chlorotoluene	1.58	2.26	7.14	< 2.26	ug/Kg	U
2-Hexanone	5.15	7.36	35.7	< 7.36	ug/Kg	U
4-Chlorotoluene	1.39	1.99	7.14	< 1.99	ug/Kg	U
4-Methyl-2-Pentanone	3.79	5.41	35.7	< 5.41	ug/Kg	U
Acetone	7.76	11.09	35.7	< 11.1	ug/Kg	U
Benzene	1.48	2.11	7.14	< 2.11	ug/Kg	U
Bromobenzene	1.47	2.10	7.14	< 2.10	ug/Kg	U
Bromochloromethane	1.35	1.93	7.14	< 1.93	ug/Kg	U
Bromodichloromethane	1.66	2.37	7.14	< 2.37	ug/Kg	U
Bromoform	1.63	2.33	7.14	< 2.33	ug/Kg	U
Bromomethane	2.09	2.99	7.14	< 2.99	ug/Kg	U
Carbon tetrachloride	1.99	2.84	7.14	< 2.84	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B4 - 14'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.07
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	2.26	7.14	< 2.26	ug/Kg	U
Chloroethane	2.05	2.93	7.14	< 2.93	ug/Kg	U
Chloroform	1.79	2.56	7.14	< 2.56	ug/Kg	U
Chloromethane	1.77	2.53	7.14	< 2.53	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.29	7.14	< 2.29	ug/Kg	U
cis-1,3-Dichloropropene	1.48	2.11	7.14	< 2.11	ug/Kg	U
Dibromochloromethane	1.61	2.30	7.14	< 2.30	ug/Kg	U
Dibromomethane	1.79	2.56	7.14	< 2.56	ug/Kg	U
Dichlorodifluoromethane	3.34	4.77	7.14	< 4.77	ug/Kg	U
Ethyl Benzene	2.01	2.87	7.14	< 2.87	ug/Kg	U
Hexachlorobutadiene	2.28	3.26	7.14	< 3.26	ug/Kg	U
Isopropylbenzene	1.52	2.17	7.14	< 2.17	ug/Kg	U
m/p-Xylene	3.69	5.27	14.3	< 5.27	ug/Kg	U
Methylene chloride	6.77	9.67	28.6	< 9.67	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.59	7.14	< 2.59	ug/Kg	U
n-Butylbenzene	1.54	2.20	7.14	< 2.20	ug/Kg	U
n-Propylbenzene	1.40	2.00	7.14	< 2.00	ug/Kg	U
Naphthalene	1.69	2.41	7.14	< 2.41	ug/Kg	U
o-Xylene	1.67	2.39	7.14	< 2.39	ug/Kg	U
p-Isopropyltoluene	1.65	2.36	7.14	< 2.36	ug/Kg	U
sec-Butylbenzene	1.45	2.07	7.14	< 2.07	ug/Kg	U
Styrene	1.68	2.40	7.14	< 2.40	ug/Kg	U
tert-Butylbenzene	1.35	1.93	7.14	< 1.93	ug/Kg	U
Tetrachloroethene	1.35	1.93	7.14	< 1.93	ug/Kg	U
Toluene	1.54	2.20	7.14	< 2.20	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.40	7.14	< 2.40	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.33	7.14	< 2.33	ug/Kg	U
Trichloroethene	1.26	1.80	7.14	< 1.80	ug/Kg	U
Trichlorofluoromethane	2.21	3.16	7.14	< 3.16	ug/Kg	U
Vinyl Chloride	1.62	2.31	7.14	< 2.31	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	109	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	93	80 - 120
Toluene-d8	50 ug/Kg	110	81 - 117
4-Bromofluorobenzene	50 ug/Kg	84	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.08
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8957	TIME ANALYZED	:13:24
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	21

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.29	6.33	< 2.29	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.90	6.33	< 1.90	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.23	6.33	< 2.23	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.65	6.33	< 1.65	ug/Kg	U
1,1-Dichloroethane	1.68	2.13	6.33	< 2.13	ug/Kg	U
1,1-Dichloroethene	1.75	2.22	6.33	< 2.22	ug/Kg	U
1,1-Dichloropropene	1.68	2.13	6.33	< 2.13	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.78	6.33	< 2.78	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.66	6.33	< 2.66	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.44	6.33	< 2.44	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.16	6.33	< 2.16	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.99	6.33	< 2.99	ug/Kg	U
1,2-Dibromoethane	1.52	1.92	6.33	< 1.92	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.54	6.33	< 1.54	ug/Kg	U
1,2-Dichloroethane	1.67	2.11	6.33	< 2.11	ug/Kg	U
1,2-Dichloropropane	1.21	1.53	6.33	< 1.53	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.87	6.33	< 1.87	ug/Kg	U
1,3-Dichlorobenzene	1.58	2.00	6.33	< 2.00	ug/Kg	U
1,3-Dichloropropane	1.73	2.19	6.33	< 2.19	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.97	6.33	< 1.97	ug/Kg	U
1-Chlorohexane	1.40	1.77	6.33	< 1.77	ug/Kg	U
2,2-Dichloropropane	1.79	2.27	6.33	< 2.27	ug/Kg	U
2-Butanone	7.65	9.68	31.6	< 9.68	ug/Kg	U
2-Chlorotoluene	1.58	2.00	6.33	< 2.00	ug/Kg	U
2-Hexanone	5.15	6.52	31.6	< 6.52	ug/Kg	U
4-Chlorotoluene	1.39	1.76	6.33	< 1.76	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.80	31.6	< 4.80	ug/Kg	U
Acetone	7.76	9.82	31.6	< 9.82	ug/Kg	U
Benzene	1.48	1.87	6.33	< 1.87	ug/Kg	U
Bromobenzene	1.47	1.86	6.33	< 1.86	ug/Kg	U
Bromochloromethane	1.35	1.71	6.33	< 1.71	ug/Kg	U
Bromodichloromethane	1.66	2.10	6.33	< 2.10	ug/Kg	U
Bromoform	1.63	2.06	6.33	< 2.06	ug/Kg	U
Bromomethane	2.09	2.65	6.33	< 2.65	ug/Kg	U
Carbon tetrachloride	1.99	2.52	6.33	< 2.52	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.08
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/26/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	2.00	6.33	< 2.00	ug/Kg	U
Chloroethane	2.05	2.59	6.33	< 2.59	ug/Kg	U
Chloroform	1.79	2.27	6.33	< 2.27	ug/Kg	U
Chloromethane	1.77	2.24	6.33	< 2.24	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.03	6.33	< 2.03	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.87	6.33	< 1.87	ug/Kg	U
Dibromochloromethane	1.61	2.04	6.33	< 2.04	ug/Kg	U
Dibromomethane	1.79	2.27	6.33	< 2.27	ug/Kg	U
Dichlorodifluoromethane	3.34	4.23	6.33	< 4.23	ug/Kg	U
Ethyl Benzene	2.01	2.54	6.33	< 2.54	ug/Kg	U
Hexachlorobutadiene	2.28	2.89	6.33	< 2.89	ug/Kg	U
Isopropylbenzene	1.52	1.92	6.33	< 1.92	ug/Kg	U
m/p-Xylene	3.69	4.67	12.7	< 4.67	ug/Kg	U
Methylene chloride	6.77	8.57	25.3	< 8.57	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.29	6.33	< 2.29	ug/Kg	U
n-Butylbenzene	1.54	1.95	6.33	< 1.95	ug/Kg	U
n-Propylbenzene	1.40	1.77	6.33	< 1.77	ug/Kg	U
Naphthalene	1.69	2.14	6.33	< 2.14	ug/Kg	U
o-Xylene	1.67	2.11	6.33	< 2.11	ug/Kg	U
p-Isopropyltoluene	1.65	2.09	6.33	< 2.09	ug/Kg	U
sec-Butylbenzene	1.45	1.84	6.33	< 1.84	ug/Kg	U
Styrene	1.68	2.13	6.33	< 2.13	ug/Kg	U
tert-Butylbenzene	1.35	1.71	6.33	< 1.71	ug/Kg	U
Tetrachloroethene	1.35	1.71	6.33	< 1.71	ug/Kg	U
Toluene	1.54	1.95	6.33	< 1.95	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.13	6.33	< 2.13	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.06	6.33	< 2.06	ug/Kg	U
Trichloroethene	1.26	1.59	6.33	< 1.59	ug/Kg	U
Trichlorofluoromethane	2.21	2.80	6.33	< 2.80	ug/Kg	U
Vinyl Chloride	1.62	2.05	6.33	< 2.05	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	107	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	96	80 - 120
Toluene-d8	50 ug/Kg	114	81 - 117
4-Bromofluorobenzene	50 ug/Kg	81	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.09
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8958	TIME ANALYZED	:13:58
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	17

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.18	6.02	< 2.18	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.81	6.02	< 1.81	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.12	6.02	< 2.12	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.57	6.02	< 1.57	ug/Kg	U
1,1-Dichloroethane	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,1-Dichloroethene	1.75	2.11	6.02	< 2.11	ug/Kg	U
1,1-Dichloropropene	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.65	6.02	< 2.65	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.53	6.02	< 2.53	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.33	6.02	< 2.33	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.06	6.02	< 2.06	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.84	6.02	< 2.84	ug/Kg	U
1,2-Dibromoethane	1.52	1.83	6.02	< 1.83	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.47	6.02	< 1.47	ug/Kg	U
1,2-Dichloroethane	1.67	2.01	6.02	< 2.01	ug/Kg	U
1,2-Dichloropropane	1.21	1.46	6.02	< 1.46	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
1,3-Dichloropropane	1.73	2.08	6.02	< 2.08	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.88	6.02	< 1.88	ug/Kg	U
1-Chlorohexane	1.40	1.69	6.02	< 1.69	ug/Kg	U
2,2-Dichloropropane	1.79	2.16	6.02	< 2.16	ug/Kg	U
2-Butanone	7.65	9.22	30.1	< 9.22	ug/Kg	U
2-Chlorotoluene	1.58	1.90	6.02	< 1.90	ug/Kg	U
2-Hexanone	5.15	6.20	30.1	< 6.20	ug/Kg	U
4-Chlorotoluene	1.39	1.67	6.02	< 1.67	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.57	30.1	< 4.57	ug/Kg	U
Acetone	7.76	9.35	30.1	37.3	ug/Kg	
Benzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Bromobenzene	1.47	1.77	6.02	< 1.77	ug/Kg	U
Bromochloromethane	1.35	1.63	6.02	< 1.63	ug/Kg	U
Bromodichloromethane	1.66	2.00	6.02	< 2.00	ug/Kg	U
Bromoform	1.63	1.96	6.02	< 1.96	ug/Kg	U
Bromomethane	2.09	2.52	6.02	< 2.52	ug/Kg	U
Carbon tetrachloride	1.99	2.40	6.02	< 2.40	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.09
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
Chloroethane	2.05	2.47	6.02	< 2.47	ug/Kg	U
Chloroform	1.79	2.16	6.02	< 2.16	ug/Kg	U
Chloromethane	1.77	2.13	6.02	< 2.13	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.93	6.02	< 1.93	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Dibromochloromethane	1.61	1.94	6.02	< 1.94	ug/Kg	U
Dibromomethane	1.79	2.16	6.02	< 2.16	ug/Kg	U
Dichlorodifluoromethane	3.34	4.02	6.02	< 4.02	ug/Kg	U
Ethyl Benzene	2.01	2.42	6.02	< 2.42	ug/Kg	U
Hexachlorobutadiene	2.28	2.75	6.02	< 2.75	ug/Kg	U
Isopropylbenzene	1.52	1.83	6.02	< 1.83	ug/Kg	U
m/p-Xylene	3.69	4.45	12.0	< 4.45	ug/Kg	U
Methylene chloride	6.77	8.16	24.1	< 8.16	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.18	6.02	< 2.18	ug/Kg	U
n-Butylbenzene	1.54	1.86	6.02	< 1.86	ug/Kg	U
n-Propylbenzene	1.40	1.69	6.02	< 1.69	ug/Kg	U
Naphthalene	1.69	2.04	6.02	< 2.04	ug/Kg	U
o-Xylene	1.67	2.01	6.02	< 2.01	ug/Kg	U
p-Isopropyltoluene	1.65	1.99	6.02	< 1.99	ug/Kg	U
sec-Butylbenzene	1.45	1.75	6.02	< 1.75	ug/Kg	U
Styrene	1.68	2.02	6.02	< 2.02	ug/Kg	U
tert-Butylbenzene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Tetrachloroethene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Toluene	1.54	1.86	6.02	< 1.86	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.02	6.02	< 2.02	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.96	6.02	< 1.96	ug/Kg	U
Trichloroethene	1.26	1.52	6.02	< 1.52	ug/Kg	U
Trichlorofluoromethane	2.21	2.66	6.02	< 2.66	ug/Kg	U
Vinyl Chloride	1.62	1.95	6.02	< 1.95	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	111	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	100	80 - 120
Toluene-d8	50 ug/Kg	113	81 - 117
4-Bromofluorobenzene	50 ug/Kg	80	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.10
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8959	TIME ANALYZED	:14:31
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	11

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.03	5.62	< 2.03	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.69	5.62	< 1.69	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	1.98	5.62	< 1.98	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.46	5.62	< 1.46	ug/Kg	U
1,1-Dichloroethane	1.68	1.89	5.62	< 1.89	ug/Kg	U
1,1-Dichloroethene	1.75	1.97	5.62	< 1.97	ug/Kg	U
1,1-Dichloropropene	1.68	1.89	5.62	< 1.89	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.47	5.62	< 2.47	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.36	5.62	< 2.36	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.17	5.62	< 2.17	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.92	5.62	< 1.92	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.65	5.62	< 2.65	ug/Kg	U
1,2-Dibromoethane	1.52	1.71	5.62	< 1.71	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.37	5.62	< 1.37	ug/Kg	U
1,2-Dichloroethane	1.67	1.88	5.62	< 1.88	ug/Kg	U
1,2-Dichloropropane	1.21	1.36	5.62	< 1.36	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.66	5.62	< 1.66	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.78	5.62	< 1.78	ug/Kg	U
1,3-Dichloropropane	1.73	1.94	5.62	< 1.94	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.75	5.62	< 1.75	ug/Kg	U
1-Chlorohexane	1.40	1.57	5.62	< 1.57	ug/Kg	U
2,2-Dichloropropane	1.79	2.01	5.62	< 2.01	ug/Kg	U
2-Butanone	7.65	8.60	28.1	< 8.60	ug/Kg	U
2-Chlorotoluene	1.58	1.78	5.62	< 1.78	ug/Kg	U
2-Hexanone	5.15	5.79	28.1	< 5.79	ug/Kg	U
4-Chlorotoluene	1.39	1.56	5.62	< 1.56	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.26	28.1	< 4.26	ug/Kg	U
Acetone	7.76	8.72	28.1	< 8.72	ug/Kg	U
Benzene	1.48	1.66	5.62	< 1.66	ug/Kg	U
Bromobenzene	1.47	1.65	5.62	< 1.65	ug/Kg	U
Bromochloromethane	1.35	1.52	5.62	< 1.52	ug/Kg	U
Bromodichloromethane	1.66	1.87	5.62	< 1.87	ug/Kg	U
Bromoform	1.63	1.83	5.62	< 1.83	ug/Kg	U
Bromomethane	2.09	2.35	5.62	< 2.35	ug/Kg	U
Carbon tetrachloride	1.99	2.24	5.62	< 2.24	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B5 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.10
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/27/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.78	5.62	< 1.78	ug/Kg	U
Chloroethane	2.05	2.30	5.62	< 2.30	ug/Kg	U
Chloroform	1.79	2.01	5.62	< 2.01	ug/Kg	U
Chloromethane	1.77	1.99	5.62	< 1.99	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.80	5.62	< 1.80	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.66	5.62	< 1.66	ug/Kg	U
Dibromochloromethane	1.61	1.81	5.62	< 1.81	ug/Kg	U
Dibromomethane	1.79	2.01	5.62	< 2.01	ug/Kg	U
Dichlorodifluoromethane	3.34	3.75	5.62	< 3.75	ug/Kg	U
Ethyl Benzene	2.01	2.26	5.62	< 2.26	ug/Kg	U
Hexachlorobutadiene	2.28	2.56	5.62	< 2.56	ug/Kg	U
Isopropylbenzene	1.52	1.71	5.62	< 1.71	ug/Kg	U
m/p-Xylene	3.69	4.15	11.2	< 4.15	ug/Kg	U
Methylene chloride	6.77	7.61	22.5	< 7.61	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.03	5.62	< 2.03	ug/Kg	U
n-Butylbenzene	1.54	1.73	5.62	< 1.73	ug/Kg	U
n-Propylbenzene	1.40	1.57	5.62	< 1.57	ug/Kg	U
Naphthalene	1.69	1.90	5.62	< 1.90	ug/Kg	U
o-Xylene	1.67	1.88	5.62	< 1.88	ug/Kg	U
p-Isopropyltoluene	1.65	1.85	5.62	< 1.85	ug/Kg	U
sec-Butylbenzene	1.45	1.63	5.62	< 1.63	ug/Kg	U
Styrene	1.68	1.89	5.62	< 1.89	ug/Kg	U
tert-Butylbenzene	1.35	1.52	5.62	< 1.52	ug/Kg	U
Tetrachloroethene	1.35	1.52	5.62	< 1.52	ug/Kg	U
Toluene	1.54	1.73	5.62	< 1.73	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.89	5.62	< 1.89	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.83	5.62	< 1.83	ug/Kg	U
Trichloroethene	1.26	1.42	5.62	< 1.42	ug/Kg	U
Trichlorofluoromethane	2.21	2.48	5.62	< 2.48	ug/Kg	U
Vinyl Chloride	1.62	1.82	5.62	< 1.82	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	111	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	103	80 - 120
Toluene-d8	50 ug/Kg	111	81 - 117
4-Bromofluorobenzene	50 ug/Kg	83	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.11
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/28/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8960	TIME ANALYZED	:15:05
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	19

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.23	6.17	< 2.23	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.85	6.17	< 1.85	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.17	6.17	< 2.17	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.60	6.17	< 1.60	ug/Kg	U
1,1-Dichloroethane	1.68	2.07	6.17	< 2.07	ug/Kg	U
1,1-Dichloroethene	1.75	2.16	6.17	< 2.16	ug/Kg	U
1,1-Dichloropropene	1.68	2.07	6.17	< 2.07	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.72	6.17	< 2.72	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.59	6.17	< 2.59	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.38	6.17	< 2.38	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.11	6.17	< 2.11	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.91	6.17	< 2.91	ug/Kg	U
1,2-Dibromoethane	1.52	1.88	6.17	< 1.88	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.51	6.17	< 1.51	ug/Kg	U
1,2-Dichloroethane	1.67	2.06	6.17	< 2.06	ug/Kg	U
1,2-Dichloropropane	1.21	1.49	6.17	< 1.49	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.83	6.17	< 1.83	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.95	6.17	< 1.95	ug/Kg	U
1,3-Dichloropropane	1.73	2.14	6.17	< 2.14	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.93	6.17	< 1.93	ug/Kg	U
1-Chlorohexane	1.40	1.73	6.17	< 1.73	ug/Kg	U
2,2-Dichloropropane	1.79	2.21	6.17	< 2.21	ug/Kg	U
2-Butanone	7.65	9.44	30.9	< 9.44	ug/Kg	U
2-Chlorotoluene	1.58	1.95	6.17	< 1.95	ug/Kg	U
2-Hexanone	5.15	6.36	30.9	< 6.36	ug/Kg	U
4-Chlorotoluene	1.39	1.72	6.17	< 1.72	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.68	30.9	< 4.68	ug/Kg	U
Acetone	7.76	9.58	30.9	< 9.58	ug/Kg	U
Benzene	1.48	1.83	6.17	< 1.83	ug/Kg	U
Bromobenzene	1.47	1.81	6.17	< 1.81	ug/Kg	U
Bromochloromethane	1.35	1.67	6.17	< 1.67	ug/Kg	U
Bromodichloromethane	1.66	2.05	6.17	< 2.05	ug/Kg	U
Bromoform	1.63	2.01	6.17	< 2.01	ug/Kg	U
Bromomethane	2.09	2.58	6.17	< 2.58	ug/Kg	U
Carbon tetrachloride	1.99	2.46	6.17	< 2.46	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.11
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/28/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.95	6.17	< 1.95	ug/Kg	U
Chloroethane	2.05	2.53	6.17	< 2.53	ug/Kg	U
Chloroform	1.79	2.21	6.17	< 2.21	ug/Kg	U
Chloromethane	1.77	2.19	6.17	< 2.19	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.98	6.17	< 1.98	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.83	6.17	< 1.83	ug/Kg	U
Dibromochloromethane	1.61	1.99	6.17	< 1.99	ug/Kg	U
Dibromomethane	1.79	2.21	6.17	< 2.21	ug/Kg	U
Dichlorodifluoromethane	3.34	4.12	6.17	< 4.12	ug/Kg	U
Ethyl Benzene	2.01	2.48	6.17	< 2.48	ug/Kg	U
Hexachlorobutadiene	2.28	2.81	6.17	< 2.81	ug/Kg	U
Isopropylbenzene	1.52	1.88	6.17	< 1.88	ug/Kg	U
m/p-Xylene	3.69	4.56	12.3	< 4.56	ug/Kg	U
Methylene chloride	6.77	8.36	24.7	< 8.36	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.23	6.17	< 2.23	ug/Kg	U
n-Butylbenzene	1.54	1.90	6.17	< 1.90	ug/Kg	U
n-Propylbenzene	1.40	1.73	6.17	< 1.73	ug/Kg	U
Naphthalene	1.69	2.09	6.17	< 2.09	ug/Kg	U
o-Xylene	1.67	2.06	6.17	< 2.06	ug/Kg	U
p-Isopropyltoluene	1.65	2.04	6.17	< 2.04	ug/Kg	U
sec-Butylbenzene	1.45	1.79	6.17	< 1.79	ug/Kg	U
Styrene	1.68	2.07	6.17	< 2.07	ug/Kg	U
tert-Butylbenzene	1.35	1.67	6.17	< 1.67	ug/Kg	U
Tetrachloroethene	1.35	1.67	6.17	< 1.67	ug/Kg	U
Toluene	1.54	1.90	6.17	< 1.90	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.07	6.17	< 2.07	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.01	6.17	< 2.01	ug/Kg	U
Trichloroethene	1.26	1.56	6.17	< 1.56	ug/Kg	U
Trichlorofluoromethane	2.21	2.73	6.17	< 2.73	ug/Kg	U
Vinyl Chloride	1.62	2.00	6.17	< 2.00	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	**119**	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	**105**	80 - 120
Toluene-d8	50 ug/Kg	**109**	81 - 117
4-Bromofluorobenzene	50 ug/Kg	**78**	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.12
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/28/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8961	TIME ANALYZED	:15:39
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	13

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.08	5.75	< 2.08	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.72	5.75	< 1.72	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.02	5.75	< 2.02	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.49	5.75	< 1.49	ug/Kg	U
1,1-Dichloroethane	1.68	1.93	5.75	< 1.93	ug/Kg	U
1,1-Dichloroethene	1.75	2.01	5.75	< 2.01	ug/Kg	U
1,1-Dichloropropene	1.68	1.93	5.75	< 1.93	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.53	5.75	< 2.53	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.41	5.75	< 2.41	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.22	5.75	< 2.22	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.97	5.75	< 1.97	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.71	5.75	< 2.71	ug/Kg	U
1,2-Dibromoethane	1.52	1.75	5.75	< 1.75	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.40	5.75	< 1.40	ug/Kg	U
1,2-Dichloroethane	1.67	1.92	5.75	< 1.92	ug/Kg	U
1,2-Dichloropropane	1.21	1.39	5.75	< 1.39	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.70	5.75	< 1.70	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.82	5.75	< 1.82	ug/Kg	U
1,3-Dichloropropane	1.73	1.99	5.75	< 1.99	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.79	5.75	< 1.79	ug/Kg	U
1-Chlorohexane	1.40	1.61	5.75	< 1.61	ug/Kg	U
2,2-Dichloropropane	1.79	2.06	5.75	< 2.06	ug/Kg	U
2-Butanone	7.65	8.79	28.7	< 8.79	ug/Kg	U
2-Chlorotoluene	1.58	1.82	5.75	< 1.82	ug/Kg	U
2-Hexanone	5.15	5.92	28.7	< 5.92	ug/Kg	U
4-Chlorotoluene	1.39	1.60	5.75	< 1.60	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.36	28.7	< 4.36	ug/Kg	U
Acetone	7.76	8.92	28.7	< 8.92	ug/Kg	U
Benzene	1.48	1.70	5.75	< 1.70	ug/Kg	U
Bromobenzene	1.47	1.69	5.75	< 1.69	ug/Kg	U
Bromochloromethane	1.35	1.55	5.75	< 1.55	ug/Kg	U
Bromodichloromethane	1.66	1.91	5.75	< 1.91	ug/Kg	U
Bromoform	1.63	1.87	5.75	< 1.87	ug/Kg	U
Bromomethane	2.09	2.40	5.75	< 2.40	ug/Kg	U
Carbon tetrachloride	1.99	2.29	5.75	< 2.29	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B6 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.12
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/28/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.82	5.75	< 1.82	ug/Kg	U
Chloroethane	2.05	2.36	5.75	< 2.36	ug/Kg	U
Chloroform	1.79	2.06	5.75	< 2.06	ug/Kg	U
Chloromethane	1.77	2.03	5.75	< 2.03	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.84	5.75	< 1.84	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.70	5.75	< 1.70	ug/Kg	U
Dibromochloromethane	1.61	1.85	5.75	< 1.85	ug/Kg	U
Dibromomethane	1.79	2.06	5.75	< 2.06	ug/Kg	U
Dichlorodifluoromethane	3.34	3.84	5.75	< 3.84	ug/Kg	U
Ethyl Benzene	2.01	2.31	5.75	< 2.31	ug/Kg	U
Hexachlorobutadiene	2.28	2.62	5.75	< 2.62	ug/Kg	U
Isopropylbenzene	1.52	1.75	5.75	< 1.75	ug/Kg	U
m/p-Xylene	3.69	4.24	11.5	< 4.24	ug/Kg	U
Methylene chloride	6.77	7.78	23.0	< 7.78	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.08	5.75	< 2.08	ug/Kg	U
n-Butylbenzene	1.54	1.77	5.75	< 1.77	ug/Kg	U
n-Propylbenzene	1.40	1.61	5.75	< 1.61	ug/Kg	U
Naphthalene	1.69	1.94	5.75	< 1.94	ug/Kg	U
o-Xylene	1.67	1.92	5.75	< 1.92	ug/Kg	U
p-Isopropyltoluene	1.65	1.90	5.75	< 1.90	ug/Kg	U
sec-Butylbenzene	1.45	1.67	5.75	< 1.67	ug/Kg	U
Styrene	1.68	1.93	5.75	< 1.93	ug/Kg	U
tert-Butylbenzene	1.35	1.55	5.75	< 1.55	ug/Kg	U
Tetrachloroethene	1.35	1.55	5.75	< 1.55	ug/Kg	U
Toluene	1.54	1.77	5.75	< 1.77	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.93	5.75	< 1.93	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.87	5.75	< 1.87	ug/Kg	U
Trichloroethene	1.26	1.45	5.75	< 1.45	ug/Kg	U
Trichlorofluoromethane	2.21	2.54	5.75	< 2.54	ug/Kg	U
Vinyl Chloride	1.62	1.86	5.75	< 1.86	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	115	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	104	80 - 120
Toluene-d8	50 ug/Kg	106	81 - 117
4-Bromofluorobenzene	50 ug/Kg	75	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 1 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.13
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/29/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8962	TIME ANALYZED	:16:13
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	7.6

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	1.96	5.41	< 1.96	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.62	5.41	< 1.62	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	1.90	5.41	< 1.90	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.41	5.41	< 1.41	ug/Kg	U
1,1-Dichloroethane	1.68	1.82	5.41	< 1.82	ug/Kg	U
1,1-Dichloroethene	1.75	1.89	5.41	< 1.89	ug/Kg	U
1,1-Dichloropropene	1.68	1.82	5.41	< 1.82	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.38	5.41	< 2.38	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.27	5.41	< 2.27	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.09	5.41	< 2.09	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.85	5.41	< 1.85	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.55	5.41	< 2.55	ug/Kg	U
1,2-Dibromoethane	1.52	1.65	5.41	< 1.65	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.32	5.41	< 1.32	ug/Kg	U
1,2-Dichloroethane	1.67	1.81	5.41	< 1.81	ug/Kg	U
1,2-Dichloropropane	1.21	1.31	5.41	< 1.31	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.60	5.41	< 1.60	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.71	5.41	< 1.71	ug/Kg	U
1,3-Dichloropropane	1.73	1.87	5.41	< 1.87	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.69	5.41	< 1.69	ug/Kg	U
1-Chlorohexane	1.40	1.52	5.41	< 1.52	ug/Kg	U
2,2-Dichloropropane	1.79	1.94	5.41	< 1.94	ug/Kg	U
2-Butanone	7.65	8.28	27.1	< 8.28	ug/Kg	U
2-Chlorotoluene	1.58	1.71	5.41	< 1.71	ug/Kg	U
2-Hexanone	5.15	5.57	27.1	< 5.57	ug/Kg	U
4-Chlorotoluene	1.39	1.50	5.41	< 1.50	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.10	27.1	< 4.10	ug/Kg	U
Acetone	7.76	8.40	27.1	< 8.40	ug/Kg	U
Benzene	1.48	1.60	5.41	< 1.60	ug/Kg	U
Bromobenzene	1.47	1.59	5.41	< 1.59	ug/Kg	U
Bromochloromethane	1.35	1.46	5.41	< 1.46	ug/Kg	U
Bromodichloromethane	1.66	1.80	5.41	< 1.80	ug/Kg	U
Bromoform	1.63	1.76	5.41	< 1.76	ug/Kg	U
Bromomethane	2.09	2.26	5.41	< 2.26	ug/Kg	U
Carbon tetrachloride	1.99	2.15	5.41	< 2.15	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 1 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.13
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/29/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.71	5.41	< 1.71	ug/Kg	U
Chloroethane	2.05	2.22	5.41	< 2.22	ug/Kg	U
Chloroform	1.79	1.94	5.41	< 1.94	ug/Kg	U
Chloromethane	1.77	1.92	5.41	< 1.92	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.73	5.41	< 1.73	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.60	5.41	< 1.60	ug/Kg	U
Dibromochloromethane	1.61	1.74	5.41	< 1.74	ug/Kg	U
Dibromomethane	1.79	1.94	5.41	< 1.94	ug/Kg	U
Dichlorodifluoromethane	3.34	3.61	5.41	< 3.61	ug/Kg	U
Ethyl Benzene	2.01	2.18	5.41	< 2.18	ug/Kg	U
Hexachlorobutadiene	2.28	2.47	5.41	< 2.47	ug/Kg	U
Isopropylbenzene	1.52	1.65	5.41	< 1.65	ug/Kg	U
m/p-Xylene	3.69	3.99	10.8	< 3.99	ug/Kg	U
Methylene chloride	6.77	7.33	21.6	< 7.33	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	1.96	5.41	< 1.96	ug/Kg	U
n-Butylbenzene	1.54	1.67	5.41	< 1.67	ug/Kg	U
n-Propylbenzene	1.40	1.52	5.41	< 1.52	ug/Kg	U
Naphthalene	1.69	1.83	5.41	< 1.83	ug/Kg	U
o-Xylene	1.67	1.81	5.41	< 1.81	ug/Kg	U
p-Isopropyltoluene	1.65	1.79	5.41	< 1.79	ug/Kg	U
sec-Butylbenzene	1.45	1.57	5.41	< 1.57	ug/Kg	U
Styrene	1.68	1.82	5.41	< 1.82	ug/Kg	U
tert-Butylbenzene	1.35	1.46	5.41	< 1.46	ug/Kg	U
Tetrachloroethene	1.35	1.46	5.41	< 1.46	ug/Kg	U
Toluene	1.54	1.67	5.41	< 1.67	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.82	5.41	< 1.82	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.76	5.41	< 1.76	ug/Kg	U
Trichloroethene	1.26	1.36	5.41	< 1.36	ug/Kg	U
Trichlorofluoromethane	2.21	2.39	5.41	< 2.39	ug/Kg	U
Vinyl Chloride	1.62	1.75	5.41	< 1.75	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	118	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	94	80 - 120
Toluene-d8	50 ug/Kg	111	81 - 117
4-Bromofluorobenzene	50 ug/Kg	77	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.14
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/29/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8963	TIME ANALYZED	:16:46
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	20

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.26	6.25	< 2.26	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.88	6.25	< 1.88	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.20	6.25	< 2.20	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.63	6.25	< 1.63	ug/Kg	U
1,1-Dichloroethane	1.68	2.10	6.25	< 2.10	ug/Kg	U
1,1-Dichloroethene	1.75	2.19	6.25	< 2.19	ug/Kg	U
1,1-Dichloropropene	1.68	2.10	6.25	< 2.10	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.75	6.25	< 2.75	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.63	6.25	< 2.63	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.41	6.25	< 2.41	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.14	6.25	< 2.14	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.95	6.25	< 2.95	ug/Kg	U
1,2-Dibromoethane	1.52	1.90	6.25	< 1.90	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.53	6.25	< 1.53	ug/Kg	U
1,2-Dichloroethane	1.67	2.09	6.25	< 2.09	ug/Kg	U
1,2-Dichloropropane	1.21	1.51	6.25	< 1.51	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.85	6.25	< 1.85	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.98	6.25	< 1.98	ug/Kg	U
1,3-Dichloropropane	1.73	2.16	6.25	< 2.16	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.95	6.25	< 1.95	ug/Kg	U
1-Chlorohexane	1.40	1.75	6.25	< 1.75	ug/Kg	U
2,2-Dichloropropane	1.79	2.24	6.25	< 2.24	ug/Kg	U
2-Butanone	7.65	9.56	31.3	< 9.56	ug/Kg	U
2-Chlorotoluene	1.58	1.98	6.25	< 1.98	ug/Kg	U
2-Hexanone	5.15	6.44	31.3	< 6.44	ug/Kg	U
4-Chlorotoluene	1.39	1.74	6.25	< 1.74	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.74	31.3	< 4.74	ug/Kg	U
Acetone	7.76	9.70	31.3	< 9.70	ug/Kg	U
Benzene	1.48	1.85	6.25	< 1.85	ug/Kg	U
Bromobenzene	1.47	1.84	6.25	< 1.84	ug/Kg	U
Bromochloromethane	1.35	1.69	6.25	< 1.69	ug/Kg	U
Bromodichloromethane	1.66	2.08	6.25	< 2.08	ug/Kg	U
Bromoform	1.63	2.04	6.25	< 2.04	ug/Kg	U
Bromomethane	2.09	2.61	6.25	< 2.61	ug/Kg	U
Carbon tetrachloride	1.99	2.49	6.25	< 2.49	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B7 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.14
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/29/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.98	6.25	< 1.98	ug/Kg	U
Chloroethane	2.05	2.56	6.25	< 2.56	ug/Kg	U
Chloroform	1.79	2.24	6.25	< 2.24	ug/Kg	U
Chloromethane	1.77	2.21	6.25	< 2.21	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.00	6.25	< 2.00	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.85	6.25	< 1.85	ug/Kg	U
Dibromochloromethane	1.61	2.01	6.25	< 2.01	ug/Kg	U
Dibromomethane	1.79	2.24	6.25	< 2.24	ug/Kg	U
Dichlorodifluoromethane	3.34	4.18	6.25	< 4.18	ug/Kg	U
Ethyl Benzene	2.01	2.51	6.25	< 2.51	ug/Kg	U
Hexachlorobutadiene	2.28	2.85	6.25	< 2.85	ug/Kg	U
Isopropylbenzene	1.52	1.90	6.25	< 1.90	ug/Kg	U
m/p-Xylene	3.69	4.61	12.5	< 4.61	ug/Kg	U
Methylene chloride	6.77	8.46	25.0	< 8.46	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.26	6.25	< 2.26	ug/Kg	U
n-Butylbenzene	1.54	1.93	6.25	< 1.93	ug/Kg	U
n-Propylbenzene	1.40	1.75	6.25	< 1.75	ug/Kg	U
Naphthalene	1.69	2.11	6.25	< 2.11	ug/Kg	U
o-Xylene	1.67	2.09	6.25	< 2.09	ug/Kg	U
p-Isopropyltoluene	1.65	2.06	6.25	< 2.06	ug/Kg	U
sec-Butylbenzene	1.45	1.81	6.25	< 1.81	ug/Kg	U
Styrene	1.68	2.10	6.25	< 2.10	ug/Kg	U
tert-Butylbenzene	1.35	1.69	6.25	< 1.69	ug/Kg	U
Tetrachloroethene	1.35	1.69	6.25	< 1.69	ug/Kg	U
Toluene	1.54	1.93	6.25	< 1.93	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.10	6.25	< 2.10	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.04	6.25	< 2.04	ug/Kg	U
Trichloroethene	1.26	1.58	6.25	< 1.58	ug/Kg	U
Trichlorofluoromethane	2.21	2.76	6.25	< 2.76	ug/Kg	U
Vinyl Chloride	1.62	2.03	6.25	< 2.03	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	115	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	108	80 - 120
Toluene-d8	50 ug/Kg	112	81 - 117
4-Bromofluorobenzene	50 ug/Kg	74	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.15
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9084	TIME ANALYZED	:19:51
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	12

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.06	5.68	< 2.06	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.70	5.68	< 1.70	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.00	5.68	< 2.00	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.48	5.68	< 1.48	ug/Kg	U
1,1-Dichloroethane	1.68	1.91	5.68	< 1.91	ug/Kg	U
1,1-Dichloroethene	1.75	1.99	5.68	< 1.99	ug/Kg	U
1,1-Dichloropropene	1.68	1.91	5.68	< 1.91	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.50	5.68	< 2.50	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.39	5.68	< 2.39	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.19	5.68	< 2.19	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	1.94	5.68	< 1.94	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.68	5.68	< 2.68	ug/Kg	U
1,2-Dibromoethane	1.52	1.73	5.68	< 1.73	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.39	5.68	< 1.39	ug/Kg	U
1,2-Dichloroethane	1.67	1.90	5.68	< 1.90	ug/Kg	U
1,2-Dichloropropane	1.21	1.38	5.68	< 1.38	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.68	5.68	< 1.68	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.80	5.68	< 1.80	ug/Kg	U
1,3-Dichloropropane	1.73	1.97	5.68	< 1.97	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.77	5.68	< 1.77	ug/Kg	U
1-Chlorohexane	1.40	1.59	5.68	< 1.59	ug/Kg	U
2,2-Dichloropropane	1.79	2.03	5.68	< 2.03	ug/Kg	U
2-Butanone	7.65	8.69	28.4	< 8.69	ug/Kg	U
2-Chlorotoluene	1.58	1.80	5.68	< 1.80	ug/Kg	U
2-Hexanone	5.15	5.85	28.4	< 5.85	ug/Kg	U
4-Chlorotoluene	1.39	1.58	5.68	< 1.58	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.31	28.4	< 4.31	ug/Kg	U
Acetone	7.76	8.82	28.4	< 8.82	ug/Kg	U
Benzene	1.48	1.68	5.68	< 1.68	ug/Kg	U
Bromobenzene	1.47	1.67	5.68	< 1.67	ug/Kg	U
Bromochloromethane	1.35	1.53	5.68	< 1.53	ug/Kg	U
Bromodichloromethane	1.66	1.89	5.68	< 1.89	ug/Kg	U
Bromoform	1.63	1.85	5.68	< 1.85	ug/Kg	U
Bromomethane	2.09	2.38	5.68	< 2.38	ug/Kg	U
Carbon tetrachloride	1.99	2.26	5.68	< 2.26	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.15
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.80	5.68	< 1.80	ug/Kg	U
Chloroethane	2.05	2.33	5.68	< 2.33	ug/Kg	U
Chloroform	1.79	2.03	5.68	< 2.03	ug/Kg	U
Chloromethane	1.77	2.01	5.68	< 2.01	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.82	5.68	< 1.82	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.68	5.68	< 1.68	ug/Kg	U
Dibromochloromethane	1.61	1.83	5.68	< 1.83	ug/Kg	U
Dibromomethane	1.79	2.03	5.68	< 2.03	ug/Kg	U
Dichlorodifluoromethane	3.34	3.80	5.68	< 3.80	ug/Kg	U
Ethyl Benzene	2.01	2.28	5.68	< 2.28	ug/Kg	U
Hexachlorobutadiene	2.28	2.59	5.68	< 2.59	ug/Kg	U
Isopropylbenzene	1.52	1.73	5.68	< 1.73	ug/Kg	U
m/p-Xylene	3.69	4.19	11.4	< 4.19	ug/Kg	U
Methylene chloride	6.77	7.69	22.7	9.78	ug/Kg	JB
Methyl-tert-Butyl Ether (MtBE)	1.81	2.06	5.68	< 2.06	ug/Kg	U
n-Butylbenzene	1.54	1.75	5.68	< 1.75	ug/Kg	U
n-Propylbenzene	1.40	1.59	5.68	< 1.59	ug/Kg	U
Naphthalene	1.69	1.92	5.68	< 1.92	ug/Kg	U
o-Xylene	1.67	1.90	5.68	< 1.90	ug/Kg	U
p-Isopropyltoluene	1.65	1.88	5.68	< 1.88	ug/Kg	U
sec-Butylbenzene	1.45	1.65	5.68	< 1.65	ug/Kg	U
Styrene	1.68	1.91	5.68	< 1.91	ug/Kg	U
tert-Butylbenzene	1.35	1.53	5.68	< 1.53	ug/Kg	U
Tetrachloroethene	1.35	1.53	5.68	< 1.53	ug/Kg	U
Toluene	1.54	1.75	5.68	< 1.75	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.91	5.68	< 1.91	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.85	5.68	< 1.85	ug/Kg	U
Trichloroethene	1.26	1.43	5.68	< 1.43	ug/Kg	U
Trichlorofluoromethane	2.21	2.51	5.68	< 2.51	ug/Kg	U
Vinyl Chloride	1.62	1.84	5.68	< 1.84	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	111	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	100	80 - 120
Toluene-d8	50 ug/Kg	106	81 - 117
4-Bromofluorobenzene	50 ug/Kg	84	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.16
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8965	TIME ANALYZED	:17:54
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	17

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.18	6.02	< 2.18	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.81	6.02	< 1.81	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.12	6.02	< 2.12	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.57	6.02	< 1.57	ug/Kg	U
1,1-Dichloroethane	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,1-Dichloroethene	1.75	2.11	6.02	< 2.11	ug/Kg	U
1,1-Dichloropropene	1.68	2.02	6.02	< 2.02	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.65	6.02	< 2.65	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.53	6.02	< 2.53	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.33	6.02	< 2.33	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.06	6.02	< 2.06	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.84	6.02	< 2.84	ug/Kg	U
1,2-Dibromoethane	1.52	1.83	6.02	< 1.83	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.47	6.02	< 1.47	ug/Kg	U
1,2-Dichloroethane	1.67	2.01	6.02	< 2.01	ug/Kg	U
1,2-Dichloropropane	1.21	1.46	6.02	< 1.46	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
1,3-Dichloropropane	1.73	2.08	6.02	< 2.08	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.88	6.02	< 1.88	ug/Kg	U
1-Chlorohexane	1.40	1.69	6.02	< 1.69	ug/Kg	U
2,2-Dichloropropane	1.79	2.16	6.02	< 2.16	ug/Kg	U
2-Butanone	7.65	9.22	30.1	< 9.22	ug/Kg	U
2-Chlorotoluene	1.58	1.90	6.02	< 1.90	ug/Kg	U
2-Hexanone	5.15	6.20	30.1	< 6.20	ug/Kg	U
4-Chlorotoluene	1.39	1.67	6.02	< 1.67	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.57	30.1	< 4.57	ug/Kg	U
Acetone	7.76	9.35	30.1	< 9.35	ug/Kg	U
Benzene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Bromobenzene	1.47	1.77	6.02	< 1.77	ug/Kg	U
Bromochloromethane	1.35	1.63	6.02	< 1.63	ug/Kg	U
Bromodichloromethane	1.66	2.00	6.02	< 2.00	ug/Kg	U
Bromoform	1.63	1.96	6.02	< 1.96	ug/Kg	U
Bromomethane	2.09	2.52	6.02	< 2.52	ug/Kg	U
Carbon tetrachloride	1.99	2.40	6.02	< 2.40	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B8 - 14 1/2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.16
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.90	6.02	< 1.90	ug/Kg	U
Chloroethane	2.05	2.47	6.02	< 2.47	ug/Kg	U
Chloroform	1.79	2.16	6.02	< 2.16	ug/Kg	U
Chloromethane	1.77	2.13	6.02	< 2.13	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.93	6.02	< 1.93	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.78	6.02	< 1.78	ug/Kg	U
Dibromochloromethane	1.61	1.94	6.02	< 1.94	ug/Kg	U
Dibromomethane	1.79	2.16	6.02	< 2.16	ug/Kg	U
Dichlorodifluoromethane	3.34	4.02	6.02	< 4.02	ug/Kg	U
Ethyl Benzene	2.01	2.42	6.02	< 2.42	ug/Kg	U
Hexachlorobutadiene	2.28	2.75	6.02	< 2.75	ug/Kg	U
Isopropylbenzene	1.52	1.83	6.02	< 1.83	ug/Kg	U
m/p-Xylene	3.69	4.45	12.0	< 4.45	ug/Kg	U
Methylene chloride	6.77	8.16	24.1	< 8.16	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.18	6.02	< 2.18	ug/Kg	U
n-Butylbenzene	1.54	1.86	6.02	< 1.86	ug/Kg	U
n-Propylbenzene	1.40	1.69	6.02	< 1.69	ug/Kg	U
Naphthalene	1.69	2.04	6.02	< 2.04	ug/Kg	U
o-Xylene	1.67	2.01	6.02	< 2.01	ug/Kg	U
p-Isopropyltoluene	1.65	1.99	6.02	< 1.99	ug/Kg	U
sec-Butylbenzene	1.45	1.75	6.02	< 1.75	ug/Kg	U
Styrene	1.68	2.02	6.02	< 2.02	ug/Kg	U
tert-Butylbenzene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Tetrachloroethene	1.35	1.63	6.02	< 1.63	ug/Kg	U
Toluene	1.54	1.86	6.02	< 1.86	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.02	6.02	< 2.02	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.96	6.02	< 1.96	ug/Kg	U
Trichloroethene	1.26	1.52	6.02	< 1.52	ug/Kg	U
Trichlorofluoromethane	2.21	2.66	6.02	< 2.66	ug/Kg	U
Vinyl Chloride	1.62	1.95	6.02	< 1.95	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	120	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	104	80 - 120
Toluene-d8	50 ug/Kg	113	81 - 117
4-Bromofluorobenzene	50 ug/Kg	77	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9057	TIME ANALYZED	:15:53
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	15

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.13	5.88	< 2.13	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.76	5.88	< 1.76	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.07	5.88	< 2.07	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.53	5.88	< 1.53	ug/Kg	U
1,1-Dichloroethane	1.68	1.98	5.88	< 1.98	ug/Kg	U
1,1-Dichloroethene	1.75	2.06	5.88	< 2.06	ug/Kg	U
1,1-Dichloropropene	1.68	1.98	5.88	< 1.98	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.59	5.88	< 2.59	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.47	5.88	< 2.47	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.27	5.88	< 2.27	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.01	5.88	< 2.01	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.78	5.88	< 2.78	ug/Kg	U
1,2-Dibromoethane	1.52	1.79	5.88	< 1.79	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.44	5.88	< 1.44	ug/Kg	U
1,2-Dichloroethane	1.67	1.96	5.88	< 1.96	ug/Kg	U
1,2-Dichloropropane	1.21	1.42	5.88	< 1.42	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.74	5.88	< 1.74	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.86	5.88	< 1.86	ug/Kg	U
1,3-Dichloropropane	1.73	2.04	5.88	< 2.04	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.84	5.88	< 1.84	ug/Kg	U
1-Chlorohexane	1.40	1.65	5.88	< 1.65	ug/Kg	U
2,2-Dichloropropane	1.79	2.11	5.88	< 2.11	ug/Kg	U
2-Butanone	7.65	9.00	29.4	< 9.00	ug/Kg	U
2-Chlorotoluene	1.58	1.86	5.88	< 1.86	ug/Kg	U
2-Hexanone	5.15	6.06	29.4	< 6.06	ug/Kg	U
4-Chlorotoluene	1.39	1.64	5.88	< 1.64	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.46	29.4	< 4.46	ug/Kg	U
Acetone	7.76	9.13	29.4	28.1	ug/Kg	J
Benzene	1.48	1.74	5.88	< 1.74	ug/Kg	U
Bromobenzene	1.47	1.73	5.88	< 1.73	ug/Kg	U
Bromochloromethane	1.35	1.59	5.88	< 1.59	ug/Kg	U
Bromodichloromethane	1.66	1.95	5.88	< 1.95	ug/Kg	U
Bromoform	1.63	1.92	5.88	< 1.92	ug/Kg	U
Bromomethane	2.09	2.46	5.88	< 2.46	ug/Kg	U
Carbon tetrachloride	1.99	2.34	5.88	< 2.34	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.86	5.88	< 1.86	ug/Kg	U
Chloroethane	2.05	2.41	5.88	< 2.41	ug/Kg	U
Chloroform	1.79	2.11	5.88	< 2.11	ug/Kg	U
Chloromethane	1.77	2.08	5.88	< 2.08	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.88	5.88	< 1.88	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.74	5.88	< 1.74	ug/Kg	U
Dibromochloromethane	1.61	1.89	5.88	< 1.89	ug/Kg	U
Dibromomethane	1.79	2.11	5.88	< 2.11	ug/Kg	U
Dichlorodifluoromethane	3.34	3.93	5.88	< 3.93	ug/Kg	U
Ethyl Benzene	2.01	2.36	5.88	< 2.36	ug/Kg	U
Hexachlorobutadiene	2.28	2.68	5.88	< 2.68	ug/Kg	U
Isopropylbenzene	1.52	1.79	5.88	< 1.79	ug/Kg	U
m/p-Xylene	3.69	4.34	11.8	< 4.34	ug/Kg	U
Methylene chloride	6.77	7.96	23.5	8.88	ug/Kg	JB
Methyl-tert-Butyl Ether (MtBE)	1.81	2.13	5.88	< 2.13	ug/Kg	U
n-Butylbenzene	1.54	1.81	5.88	< 1.81	ug/Kg	U
n-Propylbenzene	1.40	1.65	5.88	< 1.65	ug/Kg	U
Naphthalene	1.69	1.99	5.88	< 1.99	ug/Kg	U
o-Xylene	1.67	1.96	5.88	< 1.96	ug/Kg	U
p-Isopropyltoluene	1.65	1.94	5.88	< 1.94	ug/Kg	U
sec-Butylbenzene	1.45	1.71	5.88	< 1.71	ug/Kg	U
Styrene	1.68	1.98	5.88	< 1.98	ug/Kg	U
tert-Butylbenzene	1.35	1.59	5.88	< 1.59	ug/Kg	U
Tetrachloroethene	1.35	1.59	5.88	< 1.59	ug/Kg	U
Toluene	1.54	1.81	5.88	< 1.81	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.98	5.88	< 1.98	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.92	5.88	< 1.92	ug/Kg	U
Trichloroethene	1.26	1.48	5.88	< 1.48	ug/Kg	U
Trichlorofluoromethane	2.21	2.60	5.88	< 2.60	ug/Kg	U
Vinyl Chloride	1.62	1.91	5.88	< 1.91	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	108	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	101	80 - 120
Toluene-d8	50 ug/Kg	104	81 - 117
4-Bromofluorobenzene	50 ug/Kg	87	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.18
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/04/2008
INSTRUMENT FILE	:C8967	TIME ANALYZED	:19:02
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	25

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.41	6.67	< 2.41	ug/Kg	U
1,1,1-Trichloroethane	1.50	2.00	6.67	< 2.00	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.35	6.67	< 2.35	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.73	6.67	< 1.73	ug/Kg	U
1,1-Dichloroethane	1.68	2.24	6.67	< 2.24	ug/Kg	U
1,1-Dichloroethene	1.75	2.33	6.67	< 2.33	ug/Kg	U
1,1-Dichloropropene	1.68	2.24	6.67	< 2.24	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.93	6.67	< 2.93	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.80	6.67	< 2.80	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.57	6.67	< 2.57	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.28	6.67	< 2.28	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	3.15	6.67	< 3.15	ug/Kg	U
1,2-Dibromoethane	1.52	2.03	6.67	< 2.03	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.63	6.67	< 1.63	ug/Kg	U
1,2-Dichloroethane	1.67	2.23	6.67	< 2.23	ug/Kg	U
1,2-Dichloropropane	1.21	1.61	6.67	< 1.61	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.97	6.67	< 1.97	ug/Kg	U
1,3-Dichlorobenzene	1.58	2.11	6.67	< 2.11	ug/Kg	U
1,3-Dichloropropane	1.73	2.31	6.67	< 2.31	ug/Kg	U
1,4-Dichlorobenzene	1.56	2.08	6.67	< 2.08	ug/Kg	U
1-Chlorohexane	1.40	1.87	6.67	< 1.87	ug/Kg	U
2,2-Dichloropropane	1.79	2.39	6.67	< 2.39	ug/Kg	U
2-Butanone	7.65	10.20	33.3	< 10.2	ug/Kg	U
2-Chlorotoluene	1.58	2.11	6.67	< 2.11	ug/Kg	U
2-Hexanone	5.15	6.87	33.3	< 6.87	ug/Kg	U
4-Chlorotoluene	1.39	1.85	6.67	< 1.85	ug/Kg	U
4-Methyl-2-Pentanone	3.79	5.05	33.3	< 5.05	ug/Kg	U
Acetone	7.76	10.35	33.3	< 10.3	ug/Kg	U
Benzene	1.48	1.97	6.67	< 1.97	ug/Kg	U
Bromobenzene	1.47	1.96	6.67	< 1.96	ug/Kg	U
Bromochloromethane	1.35	1.80	6.67	< 1.80	ug/Kg	U
Bromodichloromethane	1.66	2.21	6.67	< 2.21	ug/Kg	U
Bromoform	1.63	2.17	6.67	< 2.17	ug/Kg	U
Bromomethane	2.09	2.79	6.67	< 2.79	ug/Kg	U
Carbon tetrachloride	1.99	2.65	6.67	< 2.65	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.18
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	2.11	6.67	< 2.11	ug/Kg	U
Chloroethane	2.05	2.73	6.67	< 2.73	ug/Kg	U
Chloroform	1.79	2.39	6.67	< 2.39	ug/Kg	U
Chloromethane	1.77	2.36	6.67	< 2.36	ug/Kg	U
cis-1,2-Dichloroethene	1.60	2.13	6.67	< 2.13	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.97	6.67	< 1.97	ug/Kg	U
Dibromochloromethane	1.61	2.15	6.67	< 2.15	ug/Kg	U
Dibromomethane	1.79	2.39	6.67	< 2.39	ug/Kg	U
Dichlorodifluoromethane	3.34	4.45	6.67	< 4.45	ug/Kg	U
Ethyl Benzene	2.01	2.68	6.67	< 2.68	ug/Kg	U
Hexachlorobutadiene	2.28	3.04	6.67	< 3.04	ug/Kg	U
Isopropylbenzene	1.52	2.03	6.67	< 2.03	ug/Kg	U
m/p-Xylene	3.69	4.92	13.3	< 4.92	ug/Kg	U
Methylene chloride	6.77	9.03	26.7	< 9.03	ug/Kg	U
Methyl-tert-Butyl Ether (MtBE)	1.81	2.41	6.67	< 2.41	ug/Kg	U
n-Butylbenzene	1.54	2.05	6.67	< 2.05	ug/Kg	U
n-Propylbenzene	1.40	1.87	6.67	< 1.87	ug/Kg	U
Naphthalene	1.69	2.25	6.67	< 2.25	ug/Kg	U
o-Xylene	1.67	2.23	6.67	< 2.23	ug/Kg	U
p-Isopropyltoluene	1.65	2.20	6.67	< 2.20	ug/Kg	U
sec-Butylbenzene	1.45	1.93	6.67	< 1.93	ug/Kg	U
Styrene	1.68	2.24	6.67	< 2.24	ug/Kg	U
tert-Butylbenzene	1.35	1.80	6.67	< 1.80	ug/Kg	U
Tetrachloroethene	1.35	1.80	6.67	< 1.80	ug/Kg	U
Toluene	1.54	2.05	6.67	< 2.05	ug/Kg	U
trans-1,2-Dichloroethene	1.68	2.24	6.67	< 2.24	ug/Kg	U
trans-1,3-Dichloropropene	1.63	2.17	6.67	< 2.17	ug/Kg	U
Trichloroethene	1.26	1.68	6.67	< 1.68	ug/Kg	U
Trichlorofluoromethane	2.21	2.95	6.67	< 2.95	ug/Kg	U
Vinyl Chloride	1.62	2.16	6.67	< 2.16	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	127	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	109	80 - 120
Toluene-d8	50 ug/Kg	112	81 - 117
4-Bromofluorobenzene	50 ug/Kg	74	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Sample Duplicate
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2' DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9063	TIME ANALYZED	:19:17
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X	PERCENT MOISTURE	15

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	1.81	2.13	5.88	< 2.13	ug/Kg	U
1,1,1-Trichloroethane	1.50	1.76	5.88	< 1.76	ug/Kg	U
1,1,2,2-Tetrachloroethane	1.76	2.07	5.88	< 2.07	ug/Kg	U
1,1,2-Trichloroethane	1.30	1.53	5.88	< 1.53	ug/Kg	U
1,1-Dichloroethane	1.68	1.98	5.88	< 1.98	ug/Kg	U
1,1-Dichloroethene	1.75	2.06	5.88	< 2.06	ug/Kg	U
1,1-Dichloropropene	1.68	1.98	5.88	< 1.98	ug/Kg	U
1,2,3-Trichlorobenzene	2.20	2.59	5.88	< 2.59	ug/Kg	U
1,2,3-Trichloropropane	2.10	2.47	5.88	< 2.47	ug/Kg	U
1,2,4-Trichlorobenzene	1.93	2.27	5.88	< 2.27	ug/Kg	U
1,2,4-Trimethylbenzene	1.71	2.01	5.88	< 2.01	ug/Kg	U
1,2-Dibromo-3-chloropropane	2.36	2.78	5.88	< 2.78	ug/Kg	U
1,2-Dibromoethane	1.52	1.79	5.88	< 1.79	ug/Kg	U
1,2-Dichlorobenzene	1.22	1.44	5.88	< 1.44	ug/Kg	U
1,2-Dichloroethane	1.67	1.96	5.88	< 1.96	ug/Kg	U
1,2-Dichloropropane	1.21	1.42	5.88	< 1.42	ug/Kg	U
1,3,5-Trimethylbenzene	1.48	1.74	5.88	< 1.74	ug/Kg	U
1,3-Dichlorobenzene	1.58	1.86	5.88	< 1.86	ug/Kg	U
1,3-Dichloropropane	1.73	2.04	5.88	< 2.04	ug/Kg	U
1,4-Dichlorobenzene	1.56	1.84	5.88	< 1.84	ug/Kg	U
1-Chlorohexane	1.40	1.65	5.88	< 1.65	ug/Kg	U
2,2-Dichloropropane	1.79	2.11	5.88	< 2.11	ug/Kg	U
2-Butanone	7.65	9.00	29.4	< 9.00	ug/Kg	U
2-Chlorotoluene	1.58	1.86	5.88	< 1.86	ug/Kg	U
2-Hexanone	5.15	6.06	29.4	< 6.06	ug/Kg	U
4-Chlorotoluene	1.39	1.64	5.88	< 1.64	ug/Kg	U
4-Methyl-2-Pentanone	3.79	4.46	29.4	< 4.46	ug/Kg	U
Acetone	7.76	9.13	29.4	25.4	ug/Kg	J
Benzene	1.48	1.74	5.88	< 1.74	ug/Kg	U
Bromobenzene	1.47	1.73	5.88	< 1.73	ug/Kg	U
Bromochloromethane	1.35	1.59	5.88	< 1.59	ug/Kg	U
Bromodichloromethane	1.66	1.95	5.88	< 1.95	ug/Kg	U
Bromoform	1.63	1.92	5.88	< 1.92	ug/Kg	U
Bromomethane	2.09	2.46	5.88	< 2.46	ug/Kg	U
Carbon tetrachloride	1.99	2.34	5.88	< 2.34	ug/Kg	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2' DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	1.58	1.86	5.88	< 1.86	ug/Kg	U
Chloroethane	2.05	2.41	5.88	< 2.41	ug/Kg	U
Chloroform	1.79	2.11	5.88	< 2.11	ug/Kg	U
Chloromethane	1.77	2.08	5.88	< 2.08	ug/Kg	U
cis-1,2-Dichloroethene	1.60	1.88	5.88	< 1.88	ug/Kg	U
cis-1,3-Dichloropropene	1.48	1.74	5.88	< 1.74	ug/Kg	U
Dibromochloromethane	1.61	1.89	5.88	< 1.89	ug/Kg	U
Dibromomethane	1.79	2.11	5.88	< 2.11	ug/Kg	U
Dichlorodifluoromethane	3.34	3.93	5.88	< 3.93	ug/Kg	U
Ethyl Benzene	2.01	2.36	5.88	< 2.36	ug/Kg	U
Hexachlorobutadiene	2.28	2.68	5.88	< 2.68	ug/Kg	U
Isopropylbenzene	1.52	1.79	5.88	< 1.79	ug/Kg	U
m/p-Xylene	3.69	4.34	11.8	< 4.34	ug/Kg	U
Methylene chloride	6.77	7.96	23.5	8.58	ug/Kg	JB
Methyl-tert-Butyl Ether (MtBE)	1.81	2.13	5.88	< 2.13	ug/Kg	U
n-Butylbenzene	1.54	1.81	5.88	< 1.81	ug/Kg	U
n-Propylbenzene	1.40	1.65	5.88	< 1.65	ug/Kg	U
Naphthalene	1.69	1.99	5.88	< 1.99	ug/Kg	U
o-Xylene	1.67	1.96	5.88	< 1.96	ug/Kg	U
p-Isopropyltoluene	1.65	1.94	5.88	< 1.94	ug/Kg	U
sec-Butylbenzene	1.45	1.71	5.88	< 1.71	ug/Kg	U
Styrene	1.68	1.98	5.88	< 1.98	ug/Kg	U
tert-Butylbenzene	1.35	1.59	5.88	< 1.59	ug/Kg	U
Tetrachloroethene	1.35	1.59	5.88	< 1.59	ug/Kg	U
Toluene	1.54	1.81	5.88	< 1.81	ug/Kg	U
trans-1,2-Dichloroethene	1.68	1.98	5.88	< 1.98	ug/Kg	U
trans-1,3-Dichloropropene	1.63	1.92	5.88	< 1.92	ug/Kg	U
Trichloroethene	1.26	1.48	5.88	< 1.48	ug/Kg	U
Trichlorofluoromethane	2.21	2.60	5.88	< 2.60	ug/Kg	U
Vinyl Chloride	1.62	1.91	5.88	< 1.91	ug/Kg	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	50 ug/Kg	112	80 - 130
1,2-Dichloroethane-d4	50 ug/Kg	108	80 - 120
Toluene-d8	50 ug/Kg	105	81 - 117
4-Bromofluorobenzene	50 ug/Kg	77	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Soil MS/MSD
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2' MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/08/2008
INSTRUMENT FILE	:C9061 & C9062	TIME ANALYZED	:18:08 & 18:42
PURGE VOLUME	:5 g	ANALYST	:SB
DILUTION	: 1X		

Analyte	Units	Sample Conc.	Spike Conc.	MS Result	MSD Result	MS %Rec.	MSD %Rec.	QC Limits MS/MSD	RPD %	QC Limits RPD	Qualifier
1,1,1,2-Tetrachloroethane	ug/Kg	ND	50	55.2	55.0	110	110	70-130	0.4	50	
1,1,1-Trichloroethane	ug/Kg	ND	50	53.8	51.2	108	102	70-130	5.0	50	
1,1,2,2-Tetrachloroethane	ug/Kg	ND	50	61.9	66.1	124	132	70-130	6.6	50	*
1,1,2-Trichloroethane	ug/Kg	ND	50	65.4	69.1	131	138	70-130	5.5	50	*
1,1-Dichloroethane	ug/Kg	ND	50	58.2	58.7	116	117	70-130	0.9	50	
1,1-Dichloroethene	ug/Kg	ND	50	52.1	51.5	104	103	70-130	1.2	50	
1,1-Dichloropropene	ug/Kg	ND	50	52.0	52.1	104	104	70-130	0.2	50	
1,2,3-Trichlorobenzene	ug/Kg	ND	50	58.2	56.2	116	112	70-140	3.5	50	
1,2,3-Trichloropropane	ug/Kg	ND	50	67.5	73.4	135	147	70-130	8.4	50	*
1,2,4-Trichlorobenzene	ug/Kg	ND	50	58.2	56.2	116	112	70-140	3.5	50	
1,2,4-Trimethylbenzene	ug/Kg	ND	50	55.0	54.9	110	110	70-130	0.2	50	
1,2-Dibromo-3-chloropropane	ug/Kg	ND	50	89.1	92.5	178	185	70-140	3.7	50	*
1,2-Dibromoethane	ug/Kg	ND	50	64.9	67.6	130	135	70-130	4.1	50	*
1,2-Dichlorobenzene	ug/Kg	ND	50	52.5	53.7	105	107	70-140	2.3	50	
1,2-Dichloroethane	ug/Kg	ND	50	64.1	64.0	128	128	70-130	0.2	50	
1,2-Dichloropropane	ug/Kg	ND	50	60.3	60.6	121	121	70-130	0.5	50	
1,3,5-Trimethylbenzene	ug/Kg	ND	50	56.6	56.5	113	113	70-130	0.2	50	
1,3-Dichlorobenzene	ug/Kg	ND	50	54.3	54.3	109	109	70-140	0.0	50	
1,3-Dichloropropane	ug/Kg	ND	50	68.0	70.5	136	141	70-130	3.6	50	*
1,4-Dichlorobenzene	ug/Kg	ND	50	50.2	50.7	100	101	70-140	1.0	50	
1-Chlorohexane	ug/Kg	ND	50	54.8	53.3	110	107	70-140	2.8	50	
2,2-Dichloropropane	ug/Kg	ND	50	53.7	52.9	107	106	70-130	1.5	50	
2-Butanone	ug/Kg	ND	100	153	161	153	161	50-150	5.1	50	*
2-Chlorotoluene	ug/Kg	ND	50	56.3	56.9	113	114	70-130	1.1	50	
2-Hexanone	ug/Kg	ND	100	162	179	162	179	50-150	10.0	50	*
4-Chlorotoluene	ug/Kg	ND	50	54.3	54.5	109	109	70-130	0.4	50	
4-Methyl-2-Pentanone	ug/Kg	ND	100	129	139	129	139	50-150	7.5	50	
Acetone	ug/Kg	28.1	100	157	165	129	137	50-150	6.0	50	
Benzene	ug/Kg	ND	50	56.6	55.1	113	110	70-130	2.7	50	
Bromobenzene	ug/Kg	ND	50	57.1	58.4	114	117	70-130	2.3	50	
Bromochloromethane	ug/Kg	ND	50	57.2	59.2	114	118	70-130	3.4	50	
Bromodichloromethane	ug/Kg	ND	50	59.6	58.0	119	116	70-130	2.7	50	
Bromoform	ug/Kg	ND	50	55.3	59.0	111	118	70-130	6.5	50	
Bromomethane	ug/Kg	ND	50	55.8	53.4	112	107	70-130	4.4	50	
Carbon tetrachloride	ug/Kg	ND	50	49.4	48.3	99	97	70-130	2.3	50	

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Laboratory Analysis Report
Quality Control Data - Water MS/MSD
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B9 - 2' MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.17 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	Units	Sample Conc.	Spike Conc.	MS Result	MSD Result	MS %Rec.	MSD %Rec.	QC Limits MS/MSD	RPD %	QC Limits RPD	Qualifier
Chlorobenzene	ug/Kg	ND	50	52.5	51.9	105	104	70-130	1.1	50	
Chloroethane	ug/Kg	ND	50	55.3	54.5	111	109	70-130	1.5	50	
Chloroform	ug/Kg	ND	50	56.4	56.5	113	113	70-130	0.2	50	
Chloromethane	ug/Kg	ND	50	47.8	47.6	96	95	70-130	0.4	50	
cis-1,2-Dichloroethene	ug/Kg	ND	50	53.7	53.3	107	107	70-130	0.7	50	
cis-1,3-Dichloropropene	ug/Kg	ND	50	60.3	60.6	121	121	70-130	0.5	50	
Dibromochloromethane	ug/Kg	ND	50	58.9	62.4	118	125	70-130	5.8	50	
Dibromomethane	ug/Kg	ND	50	62.8	66.6	126	133	70-130	5.9	50	*
Dichlorodifluoromethane	ug/Kg	ND	50	49.3	48.8	99	98	70-130	1.0	50	
Ethyl Benzene	ug/Kg	ND	50	53.1	53.2	106	106	70-130	0.2	50	
Hexachlorobutadiene	ug/Kg	ND	50	48.1	41.7	96	83	70-140	14.3	50	
Isopropylbenzene	ug/Kg	ND	50	58.7	59.4	117	119	70-140	1.2	50	
m/p-Xylenes	ug/Kg	ND	100	107	105	107	105	70-130	1.9	50	
Methylene chloride	ug/Kg	8.88	50	57.4	56.0	97	94	70-130	2.9	50	
Methyl-tert-Butyl Ether (MtBE)	ug/Kg	ND	50	60.0	64.0	120	128	70-130	6.5	50	
n-Butylbenzene	ug/Kg	ND	50	52.0	50.8	104	102	70-140	2.3	50	
n-Propylbenzene	ug/Kg	ND	50	56.5	56.6	113	113	70-140	0.2	50	
Naphthalene	ug/Kg	ND	50	80.3	81.3	161	163	70-140	1.2	50	*
o-Xylene	ug/Kg	ND	50	55.3	55.2	111	110	70-130	0.2	50	
p-Isopropyltoluene	ug/Kg	ND	50	54.9	54.2	110	108	70-140	1.3	50	
sec-Butylbenzene	ug/Kg	ND	50	52.4	51.7	105	103	70-130	1.3	50	
Styrene	ug/Kg	ND	50	51.2	51.5	102	103	70-130	0.6	50	
tert-Butylbenzene	ug/Kg	ND	50	56.3	55.9	113	112	70-130	0.7	50	
Tetrachloroethene	ug/Kg	ND	50	44.1	44.9	88	90	70-130	1.8	50	
Toluene	ug/Kg	ND	50	53.4	53.2	107	106	70-130	0.4	50	
trans-1,2-Dichloroethene	ug/Kg	ND	50	52.1	51.5	104	103	70-130	1.2	50	
trans-1,3-Dichloropropene	ug/Kg	ND	50	63.3	64.7	127	129	70-130	2.2	50	
Trichloroethene	ug/Kg	ND	50	49.6	48.8	99	98	70-130	1.6	50	
Trichlorofluoromethane	ug/Kg	ND	50	53.3	52.5	107	105	70-130	1.5	50	
Vinyl Chloride	ug/Kg	ND	50	44.9	46.8	90	94	70-130	4.1	50	

* Indicate Values outside of QC limits

RPD	:0	out of	65	outside limits
Spike Recovery	:14	out of	130	outside limits

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	MS % Rec.	MSD % Rec.	QC Limits	Qualifier
Dibromofluoromethane	50 ug/Kg	115	110	80 - 130	
1,2-Dichloroethane-d4	50 ug/Kg	117	119	80 - 120	
Toluene-d8	50 ug/Kg	106	107	81 - 117	
4-Bromofluorobenzene	50 ug/Kg	90	90	74 - 121	

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Laboratory Analysis Report
Quality Control Data - Soil Blank
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MBLK076
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---		
DATE RECEIVED	: ---		

Analyte	Date Prepared	Date Analyzed	Dilution	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.750	1.000	<0.750	mg/Kg	U
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.053	0.150	<0.053	mg/Kg	U
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.004	<0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.125	0.250	<0.125	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Soil LCS
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MLCS076
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---	DATE ANALYZED	:04/07/2008
DATE RECEIVED	: ---		

Analyte	Units	LCS True Value	LCS Found Value	LCS % Recovery	QC Limits LCS	Qualifier
Antimony	mg/Kg	50.0	51.5	103	75 - 125	
Arsenic	mg/Kg	50.0	50.5	101	75 - 125	
Barium	mg/Kg	50.0	51.0	102	75 - 125	
Beryllium	mg/Kg	50.0	51.0	102	75 - 125	
Cadmium	mg/Kg	50.0	49.0	98	75 - 125	
Chromium	mg/Kg	50.0	50.5	101	75 - 125	
Lead	mg/Kg	50.0	51.0	102	75 - 125	
Mercury	mg/Kg	2.50	2.35	94	75 - 125	
Nickel	mg/Kg	50.0	50.0	100	75 - 125	
Selenium	mg/Kg	50.0	50.5	101	75 - 125	
Silver	mg/Kg	50.0	49.9	100	75 - 125	

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Laboratory Analysis Report
Quality Control Data - Soil Blank
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MBLK082
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---		
DATE RECEIVED	: ---		

Analyte	Date Prepared	Date Analyzed	Dilution	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.750	1.000	<0.750	mg/Kg	U
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.053	0.150	<0.053	mg/Kg	U
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.004	<0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.125	0.250	<0.125	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U

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Laboratory Analysis Report
Quality Control Data - Soil LCS
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MLCS082
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---	DATE ANALYZED	:04/09/2008
DATE RECEIVED	: ---		

Analyte	Units	LCS True Value	LCS Found Value	LCS % Recovery	QC Limits LCS	Qualifier
Antimony	mg/Kg	50.0	43.5	87	75 - 125	
Arsenic	mg/Kg	50.0	43.4	87	75 - 125	
Barium	mg/Kg	50.0	44.2	88	75 - 125	
Beryllium	mg/Kg	50.0	43.3	87	75 - 125	
Cadmium	mg/Kg	50.0	42.6	85	75 - 125	
Chromium	mg/Kg	50.0	43.8	88	75 - 125	
Lead	mg/Kg	50.0	43.3	87	75 - 125	
Mercury	mg/Kg	2.50	2.80	112	75 - 125	
Nickel	mg/Kg	50.0	42.7	85	75 - 125	
Selenium	mg/Kg	50.0	43.1	86	75 - 125	
Silver	mg/Kg	50.0	43.0	86	75 - 125	

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Laboratory Analysis Report

RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.01
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	16

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	0.774	mg/Kg	
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	0.833	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.893	1.19	36.8	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	0.476	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.063	0.179	0.298	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	13.6	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	3.87	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	5.06	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.149	0.298	< 0.149	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	< 0.179	mg/Kg	U

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Laboratory Analysis Report

RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.02
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	37

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	< 0.238	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	2.62	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	1.190	1.59	129	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	1.11	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.084	0.238	1.03	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	49.8	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	8.41	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.003	0.006	< 0.003	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	16.4	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.198	0.397	< 0.198	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	< 0.238	mg/Kg	U

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Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 3'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.03
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	14

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.872	1.16	107	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	0.465	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.062	0.174	0.291	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	15.3	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	3.90	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	3.49	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.145	0.291	< 0.145	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281)292-5277
FAX: (281)292-2481

May 06, 2008

ZAC MCKAUGHAN
CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

REFERENCE:

Project.....: FUSION
Project Number.....:
Lab Episode Number.....: 8959
Date Received.....: 04/18/2008

Dear ZAC MCKAUGHAN:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

☐0001 ☒0002 ☐ ☐

All the holding times were met for the tests performed on these samples. Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting A4 SCIENTIFIC for your laboratory needs on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Jessica Schulze
Project Coordinator

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
(Fax): (281) 292-2481

ANALYTICAL REPORT

CLIENT PROJECT....: FUSION
CLIENT PROJECT NUMBER...: _____

Prepared For:

CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

Date: 05/06/2008

05/06/08
Signature

LAB EPISODE NUMBER: 8959
Date Received.....: 04/18/2008
Lab Project ID....: 8959

Pradeep Divvela
Quality Assurance Coordinator
(281) 292-5277
pradeep@a4scientific.com

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: 0002
PROJECT NAME	: FUSION	LAB SAMPLE ID	: 8959.002
PROJECT NUMBER	:	DATE RECEIVED	: 04/18/2008
DATE SAMPLED	: 04/18/2008	PRINTED ON	: 05/05/2008 18:01
SAMPLE MATRIX	: SOIL	% MOISTURE	:

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

END OF REPORT

EPAHO108000508

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: PBWB3A
PROJECT NUMBER	:	DATE RECEIVED	:
DATE SAMPLED	:	PRINTED ON	: 05/05/2008 18:01
SAMPLE MATRIX	: SOLID	% MOISTURE	:

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

A4 Scientific

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1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :
DATE SAMPLED :
SAMPLE MATRIX : SOLID

CLIENT SAMPLE ID : Prep Blank
LAB SAMPLE ID : TCLPBLK0502
DATE RECEIVED :
PRINTED ON : 05/05/2008 18:01
% MOISTURE :

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

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The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TCLP METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 05/05/2008 18:01

SAMPLE MATRIX : SOLID

LAB CONTROL SAMPLE

LCS SAMPLE ID : LCSWB3A
CLIENT SAMPLE ID :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :

COMPOUND	METHOD REFERENCE	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
Chromium, TCLP	SW846-6010B	MG/L	0.500		0.491		98			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery : 0 out of 1 outside limits

Citation 2773
2773

EPAHQ108000512

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2008**

Dear **Robert Scoggins**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2773

Expiration Date 5/8/2010

Generator: Citation-Lufkin
Address: 1611 N. Raguet
Lufkin, TX 75904-2143

Waste Information

Name of Waste: TPH Absorbent
TCEQ Waste Code #: 00172191
Container Type:
Detailed Description of Process Generating Waste:
absorbent used to soak up oil spills
Color: grey, black **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Citation-Lufkin		
Address:	1611 N. Raguet		
City, State, Zip:	Lufkin, TX 75904-2143		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD008066946		
State I.D.	31246	**SIC Code:**	3322

SECTION 2: Billing Information – ☐ Same as Above

Company:	Citation		
Address:	P.O. Box 3718		
City, State, Zip:	Lufkin		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120

SECTION 3: General Description of the Waste

Name of Waste: TPH Absorbent
Detailed Description of Process Generating Waste: Absorbent used to soak up oil spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Grey,black **Odor:** oil like

Specific Gravity (water=1): 1.2 **Density:** 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal 1 yard ____ ____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1-2 **Other:**
Texas State Waste Code No: 00172191
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

MAY-07-2008 09:43 TX FNDRY ENV P.02/13

EPAHO108000514

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent with oil	97-100	%
Misc. trash	0-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-5-08

Printed Name/Title: Melissa Saulsbury / Environmental Technician

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 5-8-08 Approved Rejected

Approval Number: 2773

MAY-07-2008 09:43 TX FNDRY ENV P.03/13

EPAHO108000515

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

MAY-07-2008 09:43 TX FNDRY ENV P.04/13

EPAHO108000516

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAY-07-2008 09:44 TX FNDRY ENV P.05/13

EPAHO108000517

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00/drum $100.00/bag
Transportation $70.00/hour plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

none

3. **Surcharge Pricing:**

none

4. **Special Testing Requirements:**

none

5. **Treatment and Handling Protocol:**

HPP Recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

MAY-07-2008 09:44 TX FNDRY ENV P.06/13

EPAHO108000518

7. **Tests for Product Recovered/Recycled (if applicable):**

none

8. **Management for Product Recovered/Recycled (if applicable):**

none

Citation 2774
2774

EPAHO108000520

7E
8-4-09
T-35
LAB

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2008**

Dear **Robert Scoggins**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2774

Expiration Date 5/8/2010

Generator: Citation-Lufkin
Address: 1611 N. Raguet
Lufkin, TX 75904-2143

Waste Information

Name of Waste: NDT Fluids
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
capture of excess rust preservative process
Color: yellowish/white **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Citation-Lufkin		
Address:	1611 N. Raguet		
City, State, Zip:	Lufkin, TX 75904-2143		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD008066946		
State I.D.	31246	**SIC Code:**	3322

SECTION 2: Billing Information – ☐ Same as Above

Company:	Citation		
Address:	P.O. Box 3718		
City, State, Zip:	Lufkin		
Contact:	Melissa Saulsbury	**Title:**	Environmental Technician
Phone No:	936-633-4189	**Fax No:**	936-633-4120

SECTION 3: General Description of the Waste

Name of Waste: NDT Fluid
Detailed Description of Process Generating Waste: Capture of excess rust preservative process

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Yellowish/white **Odor:** oil like

Specific Gravity (water=1): 1.2 **Density:** 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: ____ 300 ____ ____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1-2 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

MAY-07-2008 09:44 TX FNDRY ENV P.08/13

EPAHO108000523

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	neutral	0mg/l	0mg/l	10-30%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	1-10	%
Water	70-90	%
Rust Preservative	2-10	%
Dirt	1-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES Evaluation

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Melissa Saulsbury **Date:** 4-25-08

Printed Name/Title: Melissa Saulsbury / Environmental Technician

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-8-08 Approved Rejected

Approval Number: 2774

MAY-07-2008 09:44 TX FNDRY ENV P.09/13

EPAHO108000524

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- x Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

MAY-07-2008 09:45 TX FNDRY ENV P.10/13

EPAHO108000525

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAY-07-2008 09:45 TX FNDRY ENV P.11/13

EPAHO108000526

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

TBD-Based on CES Evaluation to determine if anything can be recovered

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

Standard Oily Water testing

5. **Treatment and Handling Protocol:**

TBD

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000527

7. **Tests for Product Recovered/Recycled (if applicable):**

Standard

8. **Management for Product Recovered/Recycled (if applicable);**

See Above

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Gary Brauckman
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/23/08

From: Miles Root

Lab Memo: 08-069

Subject: **Citation Evaluation Samples 0408-53 thru 56**

Four samples from Citation, Lufkin, have been evaluated as potential receipts for processing at CES. These samples are as follows: containment water, 0408-53; oil, 0408-54; NDT fluid, 0408-55; and a sulfuric acid stream containing DMEA, 0408-56. Overall, we will be able to take all of the mentioned streams, processing them as described below.

The containment water, evaluation 0408-53, according to the evaluation form, may have oil or hydrocarbons, but this sample does not. The water treats easily, has a low TOC, metals and phenols. Since this stream may arrive with hydrocarbons, any type of diesel, oil or gasoline that may come in with this water would need to be recycled.

The mixture of lube and mineral oils, evaluation 0408-54, is good looking light colored oil. This oil has an ash of only 0.05% with a chlor-d-tect of 200 ppm. A flash point of greater than 140 deg F and a density of 0.846 makes this a potentially good candidate for base oil.

The NDT fluid, evaluation 0408-55, contains approximately 33% recyclable oil. The neat sample appears to be an emulsion but breaks easily with just a little acid and essentially no heat. The oil separates out cleanly. The water phase treats easily. The water after treatment shows high copper that can be diluted with "good" water and processed. All of the other metals are okay. Phenols and TOC are also good. The oil has a density of 0.890 and can be blended into black oil without issues. The chlor-d-tect of only 100 ppm is very low.

The sulfuric acid stream containing DMEA, evaluation 0408-56, does not treat well. The initial pH of 1.3, when adjusted higher with lime forms a heavy sludge. Ammonia is also heavily liberated when this sample is pH adjusted with lime. The TOC on the water is 65,200, a rather high value, and to be expected. The metals are acceptable. There is a potential for receiving only 2-3 totes per month of the stream, so it can most likely be blended down with our other process water, if we can effectively handle the ammonia issue.

The table below is an analytical summary of the testing completed on the Citation evaluation samples.

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Citatation Evaluation Samples Summary				
	0408-53	**0408-54**	**0408-55**	**0408-56**
Water				
pH	6		9	1.3
solids, vol%	0		0	
TOC, mg/L	1261		5945	65200
Phenols	0		0	0
Flash Point	>140 deg F			
Metals				
Cd	0.060		0.065	0.000
Cu	0.064		2.876	0.133
Ni	0.290		0.343	0.836
Zn	0.130		0.144	0.000
Oil			33%	
Density		0.846	0.89	
chlor-d-tect		200	100	
Flash Point		> 140 deg F		
Ash, wt%		0.05		

Fusion Inc 2761

2761

EPAHO108000531

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/7/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2761

Expiration Date 4/28/2010

Generator: Fusion, Inc.
Address: 6911 Fulton
Houston, TX 77022

Waste Information

Name of Waste: IDW-Class 2 purge water
TCEQ Waste Code # CESQ2112
Container Type:
Detailed Description of Process Generating Waste:
Waste derived from the site investigation of a metal coatings facility
Color: brown water **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DRP
Need PFI

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Fusion Inc
Address: 6911 Fulton
City, State, Zip: Houston, TX 77022
Contact: Stratton Gillis Title:
Phone No: Fax No:
24/hr Phone:
U.S. EPA I.D. No: TXD092406321
State I.D. 32139 SIC Code: 3479

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Zac McKaughan Title: Owner
Phone No: (936) 447-3628 Fax No:

SECTION 3: General Description of the Waste

Name of Waste: IDW - Class 2 Purge Water
Detailed Description of Process Generating Waste: Waste derived from the site investigation of a metal coatings facility

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Brown - Water Odor: None

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 6 Other: One Time
Texas State Waste Code No: CESQ2112
Proper U.S. DOT Shipping Name: Non Hazardous
Class: na UN/NA: na PG: na RQ: na

PHASE ENGINEERING Fax:713-476-9797 Apr 23 2008 16:00 P.04

EPAHO108000533

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	neutral	0 mg/l	0 mg/l	61.0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500 mg/l	0 mg/l	mg/l	mg/l	mg/l

SECTION 4: Physical and Chemical Data

[illegible]	[illegible]	[illegible]
The waste consists of the following materials	Ranges are acceptable	or %
Purge Water	99	%
Solids	1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

Even though concentrations of lead exceed limits for class 2, averaged over the total depth, the concentration will be less than 5 ppm for lead. [illegible]

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

X **Authorized Signature:** [illegible] **Date:** 4/23/08

X **Printed Name/Title:** Ross Jocsan PE

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [illegible]	$45/drum waste water treatment
Date: 4-28-08 (Approved) Rejected	
Approval Number: 2761	

PHASE ENGINEERING Fax:713-476-9797 Apr 23 2008 16:00 P.05

EPAHO108000534

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/dm

2. **Contamination Limits (maximum limit before surcharges apply):**

Over city perameters- if so forward to deepwell

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

TOC, City Metals, Phenolics, PH, Flash

5. **Treatment and Handling Protocol:**

Should go to waste water treatment

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☒ Subcategory C

EPAHO108000535

7. **Tests for Product Recovered/Recycled (if applicable):**

None

8. **Management for Product Recovered/Recycled (if applicable):**

None

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
(Fax): (281) 292-2481

ANALYTICAL REPORT

CLIENT PROJECT....: FUSION
CLIENT PROJECT NUMBER...: _____

Prepared For:

CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

Date: 4/23/2008

04/23/08
Signature

LAB EPISODE NUMBER: 8959
Date Received.....: 4/18/2008
Lab Project ID....: 8959

Pradeep Divvela
Quality Assurance Coordinator
(281) 292-5277
pradeep@a4scientific.com

A4 Scientific
1544 Sawdust Road, Suite 505 · The Woodlands, TX 77380
(281) 292-5277 · FAX: (281) 292-2481 · www.a4scientific.com

Chain of Custody Record

CoC No.
Lab Project No. 8959

Client Name / Address: CKG Services LLC

Project Manager: CKG Services
Phone Number: 281-541-4824

Send Report to: CKG

Project Number:

Project Name: Fusion

Samplers (Signature):

P.O. Number

Client Sample ID	Date	Time	Station Location	Number of Containers	Matrix	TPH						Client Remarks	For Lab Use Only: Lab Sample ID
0001	4/18	10:00		1	Liquid	✓							-01
0002	4/18	10:05		1	Solid	✓							-02

Relinquished by (Signature): Date / Time: 4/18 1:25
Received by (Signature): Date / Time:
Relinquished by (Signature): Date / Time:
Received for Laboratory by (Signature): J. Schaly Date / Time: 4/18/08 1:25
Method of Shipment:

Lab Remarks:

Distribution: Original accompanies shipment; Copy to coordinator and field files

PAGE: 00002

EPAHO108000538

A4 Scientific

Sample Log-In Report

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Logged By: JS
Client Name: CKG SERVICES
Client Project Name: FUSION
ClientProject #:
P.O. No.:
Courier/No.:

Lab Project ID: 8959
Date Logged: 04/21/08
Date Received: 04/18/08
Time Received: 13:25

Report Date: 04/23/2008 14:56:01
Send Report To:
ZAC MCKAUGHAN
10707 HONEA EGYPT RD.
MONTGOMERY
TX 77316

CASE	SDG	Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Tests Required	Date Due	Remarks
		8959.001	0001	1	WATER	04/18/08	10:00	8959	TPH1005	04/23/08	
		8959.002	0002	1	SOIL	04/18/08	10:15	8959	TPH1005	04/23/08	

Instructions To Lab:

PAGE: 00002

J Schulze 4/23/08
Lab Approval

Client Approval

EPAHO108000539

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: 0001
PROJECT NAME	: FUSION	LAB SAMPLE ID	: 6959.001
PROJECT NUMBER	:	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	: 4/18/2008	DATE RECEIVED	: 4/18/2008
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/23/2008 14:42

ANALYST	: HC	DATE ANALYZED	: 04/21/08
DATE PREPPED	: 04/21/08	DILUTION	: 1
EXTRACT VOLUME	: 3 ML	INSTRUMENT FILE	: B14346
INSTRUMENT ID	: B-5890	SAMPLE VOLUME	: 30 ML
TIME ANALYZED	: 20:20		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	5.0	MG/L	ND	MG/L	
TPH-(>nC28-nC35)	5.0	MG/L	ND	MG/L	
TPH-(nC6-nC12)	5.0	MG/L	ND	MG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
o-Terphenyl	33.3 UG/L	70 - 130	82
1-Chlorooctane	33.3 UG/L	70 - 130	77

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: 0002
PROJECT NAME	: FUSION	LAB SAMPLE ID	: 8959.002
PROJECT NUMBER	:	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	: 4/18/2008	DATE RECEIVED	: 4/19/2008
SAMPLE MATRIX	: SOIL	PRINTED ON	: 4/23/2008 14:42

% MOISTURE	:	ANALYST	: HC
DATE ANALYZED	: 04/22/08	DATE PREPPED	: 04/21/08
DILUTION	: 1	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B14355	INSTRUMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 03:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	20.0	MG/KG	ND	MG/KG	
TPH-(>nC28-nC35)	20.0	MG/KG	ND	MG/KG	
TPH-(nC6-nC12)	20.0	MG/KG	ND	MG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
o-Terphenyl	250 MG/KG	70 - 130	108
1-Chlorooctane	250 MG/KG	70 - 130	108

QC RESULTS

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The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: TPHB092
PROJECT NUMBER	:	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: LIQUID	PRINTED ON	: 4/23/2008 14:42

ANALYST	: HC	DATE ANALYZED	: 04/21/08
DATE PREPPED	: 04/21/08	DILUTION	: 1
EXTRACT VOLUME	: 3 ML	INSTRUMENT FILE	: B14341
INSTRUMENT ID	: B-5890	SAMPLE VOLUME	: 30 ML
TIME ANALYZED	: 16:23		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	5.0	MG/L	ND	MG/L	
TPH-(>nC28-nC35)	5.0	MG/L	ND	MG/L	
TPH-(nC6-nC12)	5.0	MG/L	ND	MG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
o-Terphenyl	33.3 UG/L	70 - 130	100
1-Chlorooctane	33.3 UG/L	70 - 130	96

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: TPNB893
PROJECT NUMBER	:	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 4/23/2008 14:42

% MOISTURE	:	ANALYST	: HC
DATE ANALYZED	: 04/21/08	DATE PREPPED	: 04/21/08
DILUTION	: 1	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B14348	INSTRUMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 21:56

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	20.0	MG/KG	ND	MG/KG	
TPH-(>nC28-nC35)	20.0	MG/KG	ND	MG/KG	
TPH-(nC6-nC12)	20.0	MG/KG	ND	MG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
o-Terphenyl	250 MG/KG	70 - 130	127
1-Chlorooctane	250 MG/KG	70 - 130	121

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 4/23/2008 14:42

SAMPLE MATRIX : LIQUID
METHOD REFERENCE : TNRCC-1005

LAB CONTROL SAMPLE
LCS SAMPLE ID : TPHL892
CLIENT SAMPLE ID :
DATE ANALYZED : 4/21/1908
INSTRUMENT FILE : B14342

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : TPHL892D
CLIENT SAMPLE ID :
DATE ANALYZED : 4/21/1908
INSTRUMENT FILE : B14343

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
TPH-(>nC12-nC28)	MG/L	33.3	33.3	26.5	28.0	80	84	4.9	30	75 - 125
TPH-(nC6-nC12)	MG/L	33.3	33.3	25.6	27.9	77	84	8.7	30	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 2 outside limits
Spike Recovery : 0 out of 4 outside limits

A4 Scientific

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 4/23/2008 14:42

SAMPLE MATRIX : SOLID

METHOD REFERENCE : TNRCC-1005

LAB CONTROL SAMPLE

LCS SAMPLE ID : TPNL893
CLIENT SAMPLE ID :
DATE ANALYZED : 4/21/1908
INSTRUMENT FILE : 814349

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :
DATE ANALYZED :
INSTRUMENT FILE :

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
TPH-(>nC12-nC28)	MG/KG	250		251		100			30	75 - 125
TPH-(nC6-nC12)	MG/KG	250		244		98			30	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits
Spike Recovery : 0 out of 2 outside limits

A4 Scientific

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MS/MSD SUMMARY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME : PHASE ENGINEERING, INC.
PROJECT NAME : COOK ROAD-42314245(ODD)
PROJECT NUMBER : 2808063

DATE RECEIVED : 4/15/2008
PRINTED ON : 4/23/2008 14:42

SAMPLE MATRIX : SOIL

METHOD REFERENCE : TNRCC-1005

SAMPLE		MATRIX SPIKE		MATRIX SPIKE DUPLICATE	
SAMPLE ID	: 8925.005	MS SAMPLE ID	: 8925.005MS	MSD SAMPLE ID	: 8925.005MSD
CLIENT SAMPLE ID	: SB-2 @ 2'	CLIENT SAMPLE ID	: SB-2 @ 2'MS1	CLIENT SAMPLE ID	: SB-2 @ 2'MSD1
DATE ANALYZED	: 4/22/1908	DATE ANALYZED	: 4/22/1908	DATE ANALYZED	: 4/22/1908
INSTRUMENT FILE	: B14352	INSTRUMENT FILE	: B14353	INSTRUMENT FILE	: B14354

PARAMETER	UNITS	MS SPIKE ADDED	MSD SPIKE ADDED	SAMPL CONC.	MS CONC.	MSD CONC.	MS RECOVERY (%)	MSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMIT REC.
TPH-(>nC12-nC28)	MG/KG	324	324	0	322	306	99	94	5.2	30	75 - 125
TPH-(nC6-nC12)	MG/KG	324	324	0	316	300	98	93	5.2	30	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 2 outside limits
Spike Recovery : 0 out of 4 outside limits

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Laboratory Analysis Report
Quality Control Data - Water Blank
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MBLK081
PROJECT NAME	: ---	SAMPLE MATRIX	:Water
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---		
DATE RECEIVED	: ---		

Analyte	Date Prepared	Date Analyzed	Dilution	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	< 0.050	mg/L	U
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.000	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
Quality Control Data - Water LCS
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MLCS081
PROJECT NAME	: ---	SAMPLE MATRIX	:Water
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---	DATE ANALYZED	:04/08/2008
DATE RECEIVED	: ---		

Analyte	Units	LCS True Value	LCS Found Value	LCS % Recovery	QC Limits LCS	Qualifier
Antimony	mg/L	1.00	0.92	92	75 - 125	
Arsenic	mg/L	1.00	0.91	91	75 - 125	
Barium	mg/L	1.00	0.91	91	75 - 125	
Beryllium	mg/L	1.00	0.92	92	75 - 125	
Cadmium	mg/L	1.00	0.91	91	75 - 125	
Chromium	mg/L	1.00	0.90	90	75 - 125	
Lead	mg/L	1.00	0.90	90	75 - 125	
Mercury	mg/L	0.050	0.047	94	75 - 125	
Nickel	mg/L	1.00	0.91	91	75 - 125	
Selenium	mg/L	1.00	0.92	92	75 - 125	
Silver	mg/L	1.00	0.93	93	75 - 125	

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-1
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.19
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.230	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.041	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.049	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-2
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.20
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	0.011	mg/L	
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.795	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.024	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.015	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-3
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.21
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.590	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.017	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.016	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-4
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.22
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.619	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.012	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	0.008	mg/L	
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.020	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.974	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.015	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.010	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-6
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.24
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.598	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	0.004	mg/L	
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.012	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.017	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
Quality Control Data - Sample Dup
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/30/2008		
DATE RECEIVED	:03/31/2008		

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	< 0.003	mg/L	U
Arsenic, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.010	< 0.002	mg/L	U
Barium, Total	4/8/2008	4/8/2008	1	0.050	0.050	0.100	0.834	mg/L	
Beryllium, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Cadmium, Total	4/8/2008	4/8/2008	1	0.001	0.001	0.002	< 0.001	mg/L	U
Chromium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.010	0.011	mg/L	
Lead, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/L	U
Mercury, Total	4/8/2008	4/8/2008	1	0.0001	0.0001	0.0002	< 0.0001	mg/L	U
Nickel, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	0.008	mg/L	
Selenium, Total	4/8/2008	4/8/2008	1	0.003	0.003	0.005	< 0.003	mg/L	U
Silver, Total	4/8/2008	4/8/2008	1	0.004	0.004	0.010	< 0.004	mg/L	U

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Laboratory Analysis Report
Quality Control Data - Water MS/MSD
RCRA-8+3 Metals 6010B/7471A

RCRA-8 METALS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE RECEIVED	:03/30/2008	DATE ANALYZED	:04/08/2008
DATE SAMPLED	:03/31/2008		

Analyte	Units	Sample Conc.	MS Results	MSD Results	MS %Rec	MSD %Rec	Spike Conc.	QC Limits MS/MSD	RPD %	QC Limits %RPD
Antimony	mg/L	ND	0.984	0.892	98	89	1.00	75 - 125	0.0	25
Arsenic	mg/L	ND	1.00	0.836	100	84	1.00	75 - 125	17.9	25
Barium	mg/L	0.974	2.11	1.36	114	39	1.00	75 - 125	98.6	25
Beryllium	mg/L	ND	1.00	0.880	100	88	1.00	75 - 125	12.8	25
Cadmium	mg/L	ND	0.948	0.876	95	88	1.00	75 - 125	7.9	25
Chromium	mg/L	0.015	1.05	0.900	104	89	1.00	75 - 125	15.6	25
Lead	mg/L	ND	1.00	0.860	100	86	1.00	75 - 125	15.1	25
Mercury	mg/L	ND	0.049	0.048	98	96	0.050	75 - 125	2.1	25
Nickel	mg/L	0.010	1.06	0.900	105	89	1.00	75 - 125	16.5	25
Selenium	mg/L	ND	1.03	0.860	103	86	1.00	75 - 125	18.0	25
Silver	mg/L	ND	0.660	0.280	66	28	1.00	75 - 125	80.9	25

* Indicate Values outside of QC limits

RPD	:	2	out of	11	outside limits
Spike Recovery	:	3	out of	22	outside limits

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Laboratory Analysis Report
Total Dissolved Solids

TOTAL DISSOLVED SOLIDS			
Client Project Name:	**Fusion, Inc.**	***Client Project Number:***	**2803049**

	Client Sample Identification	Matrix	Sampling		KAP Lab ID:	Analysis Date	Time	TDS (mg/L)
			Date	Time				
1	MW-6	Water	3/30/2008	12:05	3070.24	4/2/2008	10:00	**1000**

Laboratory Quality Assurance	Matrix	Results (TDS)	Analysis Date & Time
TDS Prep Blank	Water	<1.0	04/02/2008 10:00
TDS RPD	Water	0.80%	04/02/2008 10:00

SAMPLE RECEIPT LOG RECORD

KAP Technologies, Inc.

KAP Lab Episode Number	Date Rec.	Time Rec.	Client/Customer	Project Name	Project Number
3070	3/31/08	14:35	Phase Eng.	Fusion, Inc.	2803049

Samples Delivered By: (KAP Staff) Client FedEX/UPS LoneStar Other	Total Number of Coolers: 1
Temperature/On Ice: Cooler (1) 2°C (2)___ (3)___ (4)___ (5)___	Cooler(s) Received with Custody Seal: Yes___ NO X See Comments
Sample(s) Received with Chain-of Custody--Dated & Signed: Yes X NO___ See Comments	Sample Container(s) Received Intact: Yes X NO___ See Comments

1	Matrix Received: X Water X Soil ___ Sludge ___ Liquid? ___ Vapor ___ Other:___	
2	Sample(s) were received in appropriate container(s)	Yes X NO___ See Comments
3	All sample(s) were tagged & labeled	Yes X NO___ See Comments
4	Sample(s) ID labels match C-O-C ID's	Yes X NO___ See Comments
5	Bottle count on C-O-C matches bottles received	Yes X NO___ See Comments
6	Sample volume received meets KAP Technologies Guideline for analyses requested	Yes X NO___ See Comments
7	Sample(s) were received with-in the required holding time(s)	Yes X NO___ See Comments
8	VOA vials completely filled. (list any bubbles in comment section)	Yes X NO___ See Comments
	Sample(s) Accepted by KAP TECHNOLOGIES, Inc.	Yes X NO___ See Comments

Comments: TRRP Reporting.

Checked in By/Date: MA Bellon 3/31/08	**LIMS Log-in By/Date:** ___
Action taken by KAP to Comments: By:___ Date:___	

EPAHO108000559

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A2 The Woodlands, TX 77380

Chain-of-Custody Record
Ph:281.367.0065 FX:281.367.6772

Chain-of Custody (COC Pg.) 1 of 2

3070

Phase Engineering

Project Number: 2803049

Site Name: Fusion, Inc

Project PO#:

TAT Time: ☐ Standard Non-Rush ☐ RUSH

Report Needed By:

E-Mail Report To:
1
2
3

Project Manager: Ross Doctoroff
PH: 713-476-9844 FAX: 713-476-9747

Sampled By: (Please Print) Mary Jordan

Remarks: TRRP
* Filter Metal Samples

						BTEX and/or MTBE	VOCs - M8260	TPH (TX1005)	Metals RCRA-8	Metals RCRA-8+3	PAHs-8270SIM	SVOCs - M8270	COMMENTS	KAP LAB Sample ID:
1	B1 - 2'	3/26	7:50	X	1		X			X				3070.01
2	B1 - 15'	3/26	8:10	X	1		X			X				.02
3	B2 - 3'	3/26	11:20	X	1		X			X				.03
4	B3A - 1'	3/27	9:07	X	1		X			X				.04
5	B3A - 15'	3/27	9:15	X	1		X			X				.05
6	B4 - 1'	3/27	10:20	X	1		X			X				.06
7	B4 - 14'	3/27	10:30	X	1		X			X				.07
8	B2 - 15'	3/26	11:40	X	1		X			X				.08
9	B5 - 2'	3/27	1:05	X	1		X			X				.09
10	B5 - 15'	3/27	1:20	X	1		X			X				.10
11	B6 - 2'	3/28	9:00	X	1		X			X				.11
12	B6 - 14½'	3/28	9:20	X	1		X			X				.12
13	B7 - 1½'	3/29	9:50	X	1		X			X				.13
14	B7 - 15'	3/29	10:07	X	1		X			X				.14
15	B8 - 2'	3/30	7:20	X	1		X			X				.15

Relinquished by:	Date: 3/31/08	Time: AM	Received by:	Date: 3/31/08	Time: AM
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 3/31	Time: 2:35	M A Bellows	3/31/08	14:35

☒ Laboratory Pick-up ☐ OTC-Delivery From Client ☐ FedEX/UPS/ LoneStar ☐ OTHER

PROBLEMS WITH SAMPLE SET; Refer to Sample Receipt Log record for Details: ☐

White Yellow - Laboratory Copies
Pink - Client Copy

EPAHO108000560

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A2 The Woodlands, TX 77380

Chain-of-Custody Record
Ph:281.367.0065 FX:281.367.6772

Chain-of Custody (COC Pg.) 2 of 2

KAP LAB REPORT 3070

PEI

Project Number: Z803049
Site Name: Fusion Inc
Project PO#:
Project Manager: Ross Doctorff
PH: 7-476-9844 FAX: 7-476-9747
Sampled By: (Please Print) Mary Jurda

TAT Time: ☐ Standard Non-Rush ☐ RUSH
Report Needed By:

E-Mail Report To:
1
2
3

Remarks:

						BTEX and/or MTBE	VOCs - M8260	TPH (TX1005)	Metals RCRA-8	Metals RCRA-8+3	PAHs-8270SIM	SVOCs - M8270	TDS				COMMENTS	KAP LAB Sample ID:
1	B8-14'2'	3/30	8:05	X	1		X		X									3070.16
2	B9-2'	3/30	8:20	X	1		X		X									.17
3	B9-15'	3/30	8:50	X	1		X		X									.18
4	MW-1	3/30	8:15	X	5		X		X									.19
5	MW-2	3/30	9:20	X	5		X		X									.20
6	MW-3	3/30	9:40	X	5		X		X									.21
7	MW-4	3/30	10:05	X	5		X		X									.22
8	MW-5	3/30	11:20	X	5		X		X									.23
9	MW-6	3/30	12:05	X	6		X		X				X					.24
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date: 3/31/08	Time: AM	Received by: Conte	Date: 3/31/08	Time: 900
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Conte	Date: 3/31	Time: 225			

☒ Laboratory Pick-up ☐ OTC-Delivery From Client ☐ FedEX/UPS/ LoneStar ☐ OTHER

Ma Bellar 3/31/08 14:35

PROBLEMS WITH SAMPLE SET, Refer to Sample Receipt Log record for Details: ☐

White Yellow - Laboratory Copies
Pink - Client Copy

EPAHO108000561

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281-367-0065 Fax: 281-367-6772

Report Date: **April 9, 2008**

KAP Lab Episode No: ***3070***

Customer Project Information/Analytical Requirements

Client Project ID:	Fusion, Inc.	*Client Project No:*	2803049

PHASE ENGINEERING, INC.
335 West 21st Street
Houston, TX 77008

Project Manager: Ross Doctoroff

KAP TECHNOLOGIES, Inc. has analyzed the following samples as indicated on the attached Chain-of-Custody:

	Client Sample ID	Matrix	Sampling Date	Sampling Time	KAP Lab ID:	Analysis
1	B1 - 2'	SOIL	3/26/2008	07:50	3070-01	VOC, Metals
2	B1 - 15'	SOIL	3/26/2008	08:10	3070-02	VOC, Metals
3	B2 - 3'	SOIL	3/26/2008	11:20	3070-03	VOC, Metals
4	B3A - 1'	SOIL	3/27/2008	09:07	3070-04	VOC, Metals
5	B3A - 14'	SOIL	3/27/2008	09:15	3070-05	VOC, Metals
6	B4 - 1'	SOIL	3/27/2008	10:20	3070-06	VOC, Metals
7	B4 - 14'	SOIL	3/27/2008	10:50	3070-07	VOC, Metals
8	B2 - 15'	SOIL	3/26/2008	11:40	3070-08	VOC, Metals
9	B5 - 2'	SOIL	3/27/2008	13:05	3070-09	VOC, Metals
10	B5 - 15'	SOIL	3/27/2008	13:20	3070-10	VOC, Metals
11	B6 - 2'	SOIL	3/28/2008	09:00	3070-11	VOC, Metals
12	B6 - 14 1/2'	SOIL	3/28/2008	09:20	3070-12	VOC, Metals
13	B7 - 1 1/2'	SOIL	3/29/2008	09:50	3070-13	VOC, Metals
14	B7 - 15'	SOIL	3/29/2008	10:07	3070-14	VOC, Metals
15	B8 - 2'	SOIL	3/30/2008	07:20	3070-15	VOC, Metals
16	B8 - 14 1/2'	SOIL	3/30/2008	08:05	3070-16	VOC, Metals
17	B9 - 2'	SOIL	3/30/2008	08:20	3070-17	VOC, Metals
18	B9 - 15'	SOIL	3/30/2008	08:50	3070-18	VOC, Metals
19	MW-1	WATER	3/30/2008	08:15	3070-19	VOC, Metals
20	MW-2	WATER	3/30/2008	09:20	3070-20	VOC, Metals
21	MW-3	WATER	3/30/2008	09:40	3070-21	VOC, Metals
22	MW-4	WATER	3/30/2008	10:05	3070-22	VOC, Metals
23	MW-5	WATER	3/30/2008	11:20	3070-23	VOC, Metals
24	MW-6	WATER	3/30/2008	12:05	3070-24	VOC, Metals, TDS
25						

Analytical Data/Report Approved by: Meagan A. Bellows

Meagan A. Bellows
Account Manager

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Water Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJG
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8903	TIME ANALYZED	:09:12
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Water Blank
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VBLKJG
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylenes	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	1.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	2.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	< 0.22	ug/L	U
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	113	80 - 130
1,2-Dichloroethane-d4	10 ug/L	93	80 - 120
Toluene-d8	10 ug/L	100	81 - 117
4-Bromofluorobenzene	10 ug/L	90	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Water LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJG
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8904	TIME ANALYZED	:09:46
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
1,1,1,2-Tetrachloroethane	10	10.6	106	70-130	ug/L	
1,1,1-Trichloroethane	10	10.3	103	70-130	ug/L	
1,1,2,2-Tetrachloroethane	10	9.49	95	70-130	ug/L	
1,1,2-Trichloroethane	10	10.1	101	70-130	ug/L	
1,1-Dichloroethane	10	10.3	103	70-130	ug/L	
1,1-Dichloroethene	10	10.2	102	70-130	ug/L	
1,1-Dichloropropene	10	10.2	102	70-130	ug/L	
1,2,3-Trichlorobenzene	10	9.02	90	70-130	ug/L	
1,2,3-Trichloropropane	10	9.12	91	70-130	ug/L	
1,2,4-Trichlorobenzene	10	9.63	96	70-130	ug/L	
1,2,4-Trimethylbenzene	10	10.4	104	70-130	ug/L	
1,2-Dibromo-3-chloropropane	10	10.3	103	70-130	ug/L	
1,2-Dibromoethane	10	9.56	96	70-130	ug/L	
1,2-Dichlorobenzene	10	9.72	97	70-130	ug/L	
1,2-Dichloroethane	10	10.1	101	70-130	ug/L	
1,2-Dichloropropane	10	9.95	100	70-130	ug/L	
1,3,5-Trimethylbenzene	10	10.5	105	70-130	ug/L	
1,3-Dichlorobenzene	10	11.0	110	70-130	ug/L	
1,3-Dichloropropane	10	9.69	97	70-130	ug/L	
1,4-Dichlorobenzene	10	10.0	100	70-130	ug/L	
1-Chlorohexane	10	10.9	109	70-130	ug/L	
2,2-Dichloropropane	10	9.93	99	70-130	ug/L	
2-Butanone	10	9.91	99	50-150	ug/L	
2-Chlorotoluene	10	10.1	101	70-130	ug/L	
2-Hexanone	10	9.76	98	50-150	ug/L	
4-Chlorotoluene	10	10.2	102	70-130	ug/L	
4-Methyl-2-Pentanone	10	11.2	112	50-150	ug/L	
Acetone	10	9.71	97	50-150	ug/L	
Benzene	10	10.8	108	70-130	ug/L	
Bromobenzene	10	9.54	95	70-130	ug/L	
Bromochloromethane	10	9.94	99	70-130	ug/L	
Bromodichloromethane	10	10.4	104	70-130	ug/L	
Bromoform	10	9.69	97	70-130	ug/L	
Bromomethane	10	11.8	118	70-130	ug/L	
Carbon tetrachloride	10	10.2	102	70-130	ug/L	

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Water LCS
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:VLCSJG
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	: ---

Analyte	LCS Spike Amount	LCS Found Value	LCS % Recovery	LCS QC Limits	Units	Qualifier
Chlorobenzene	10	10.3	103	70-130	ug/L	
Chloroethane	10	12.7	127	70-130	ug/L	
Chloroform	10	10.3	103	70-130	ug/L	
Chloromethane	10	10.5	105	70-130	ug/L	
cis-1,2-Dichloroethene	10	9.98	100	70-130	ug/L	
cis-1,3-Dichloropropene	10	10.2	102	70-130	ug/L	
Dibromochloromethane	10	9.28	93	70-130	ug/L	
Dibromomethane	10	10.1	101	70-130	ug/L	
Dichlorodifluoromethane	10	11.1	111	70-130	ug/L	
Ethyl Benzene	10	9.77	98	70-130	ug/L	
Hexachlorobutadiene	10	9.67	97	70-130	ug/L	
Isopropylbenzene	10	10.1	101	70-130	ug/L	
m/p-Xylene	10	11.4	114	70-130	ug/L	
Methylene chloride	10	9.60	96	70-130	ug/L	
Methyl-tert-Butyl Ether	10	8.92	89	70-130	ug/L	
n-Butylbenzene	10	11.0	110	70-130	ug/L	
n-Propylbenzene	10	10.5	105	70-130	ug/L	
Naphthalene	10	8.50	85	70-130	ug/L	
o-Xylene	10	10.4	104	70-130	ug/L	
p-Isopropyltoluene	10	11.1	111	70-130	ug/L	
sec-Butylbenzene	10	10.4	104	70-130	ug/L	
Styrene	10	10.8	108	70-130	ug/L	
tert-Butylbenzene	10	10.3	103	70-130	ug/L	
Tetrachloroethene	10	9.83	98	70-130	ug/L	
Toluene	10	10.7	107	70-130	ug/L	
trans-1,2-Dichloroethene	10	10.2	102	70-130	ug/L	
trans-1,3-Dichloropropene	10	10.1	101	70-130	ug/L	
Trichloroethene	10	10.2	102	70-130	ug/L	
Trichlorofluoromethane	10	12.4	124	70-130	ug/L	
Vinyl Chloride	10	9.98	100	70-130	ug/L	

* Indicate Values outside of QC limits

Spike Recovery : 0 out of 65 outside limits

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	118	80 - 130
1,2-Dichloroethane-d4	10 ug/L	94	80 - 120
Toluene-d8	10 ug/L	101	81 - 117
4-Bromofluorobenzene	10 ug/L	97	74 - 121

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-1
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.19
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8912	TIME ANALYZED	:15:00
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	1.05	ug/L	
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	3.21	ug/L	
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	2.08	ug/L	
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-1
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.19
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	2.57	ug/L	
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	13.8	ug/L	
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	120	80 - 130
1,2-Dichloroethane-d4	10 ug/L	94	80 - 120
Toluene-d8	10 ug/L	102	81 - 117
4-Bromofluorobenzene	10 ug/L	102	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-2
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.20
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8913	TIME ANALYZED	:15:34
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	4.00	ug/L	J
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-2
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.20
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	1.35	ug/L	
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	1.75	ug/L	
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	3.59	ug/L	
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	**116**	80 - 130
1,2-Dichloroethane-d4	10 ug/L	**92**	80 - 120
Toluene-d8	10 ug/L	**101**	81 - 117
4-Bromofluorobenzene	10 ug/L	**98**	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-3
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.21
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8914	TIME ANALYZED	:16:08
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-3
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.21
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	< 0.22	ug/L	U
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	119	80 - 130
1,2-Dichloroethane-d4	10 ug/L	90	80 - 120
Toluene-d8	10 ug/L	101	81 - 117
4-Bromofluorobenzene	10 ug/L	98	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-4
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.22
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8915	TIME ANALYZED	:16:42
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-4
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.22
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	5.51	ug/L	
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	120	80 - 130
1,2-Dichloroethane-d4	10 ug/L	97	80 - 120
Toluene-d8	10 ug/L	100	81 - 117
4-Bromofluorobenzene	10 ug/L	98	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8916	TIME ANALYZED	:17:15
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	< 0.22	ug/L	U
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	118	80 - 130
1,2-Dichloroethane-d4	10 ug/L	97	80 - 120
Toluene-d8	10 ug/L	102	81 - 117
4-Bromofluorobenzene	10 ug/L	97	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-6
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.24
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/02/2008
INSTRUMENT FILE	:C8917	TIME ANALYZED	:17:49
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-6
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.24
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	< 0.22	ug/L	U
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	121	80 - 130
1,2-Dichloroethane-d4	10 ug/L	93	80 - 120
Toluene-d8	10 ug/L	100	81 - 117
4-Bromofluorobenzene	10 ug/L	95	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Sample Duplicate
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/03/2008
INSTRUMENT FILE	:C8935	TIME ANALYZED	:19:08
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
1,1,1,2-Tetrachloroethane	0.21	0.21	1.0	< 0.21	ug/L	U
1,1,1-Trichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,1,2,2-Tetrachloroethane	0.25	0.25	1.0	< 0.25	ug/L	U
1,1,2-Trichloroethane	0.52	0.52	1.0	< 0.52	ug/L	U
1,1-Dichloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
1,1-Dichloroethene	0.34	0.34	1.0	< 0.34	ug/L	U
1,1-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2,3-Trichlorobenzene	0.42	0.42	1.0	< 0.42	ug/L	U
1,2,3-Trichloropropane	0.34	0.34	1.0	< 0.34	ug/L	U
1,2,4-Trichlorobenzene	0.26	0.26	1.0	< 0.26	ug/L	U
1,2,4-Trimethylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
1,2-Dibromo-3-chloropropane	0.93	0.93	1.0	< 0.93	ug/L	U
1,2-Dibromoethane	0.29	0.29	1.0	< 0.29	ug/L	U
1,2-Dichlorobenzene	0.25	0.25	1.0	< 0.25	ug/L	U
1,2-Dichloroethane	0.30	0.30	1.0	< 0.30	ug/L	U
1,2-Dichloropropane	0.24	0.24	1.0	< 0.24	ug/L	U
1,3,5-Trimethylbenzene	0.17	0.17	1.0	< 0.17	ug/L	U
1,3-Dichlorobenzene	0.22	0.22	1.0	< 0.22	ug/L	U
1,3-Dichloropropane	0.48	0.48	1.0	< 0.48	ug/L	U
1,4-Dichlorobenzene	0.32	0.32	1.0	< 0.32	ug/L	U
1-Chlorohexane	0.40	0.40	1.0	< 0.40	ug/L	U
2,2-Dichloropropane	0.32	0.32	1.0	< 0.32	ug/L	U
2-Butanone	2.45	2.45	5.0	< 2.45	ug/L	U
2-Chlorotoluene	0.27	0.27	1.0	< 0.27	ug/L	U
2-Hexanone	2.12	2.12	5.0	< 2.12	ug/L	U
4-Chlorotoluene	0.21	0.21	1.0	< 0.21	ug/L	U
4-Methyl-2-Pentanone	3.74	3.74	5.0	< 3.74	ug/L	U
Acetone	2.85	2.85	5.0	< 2.85	ug/L	U
Benzene	0.24	0.24	1.0	< 0.24	ug/L	U
Bromobenzene	0.27	0.27	1.0	< 0.27	ug/L	U
Bromochloromethane	0.36	0.36	1.0	< 0.36	ug/L	U
Bromodichloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
Bromoform	0.49	0.49	1.0	< 0.49	ug/L	U
Bromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Carbon tetrachloride	0.55	0.55	1.0	< 0.55	ug/L	U

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Laboratory Analysis Report
Quality Control Data - Sample Duplicate
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 DUP
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 DUP
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	MDL	SQL	MQL	Results	Units	Qualifier
Chlorobenzene	0.33	0.33	1.0	< 0.33	ug/L	U
Chloroethane	0.26	0.26	1.0	< 0.26	ug/L	U
Chloroform	0.22	0.22	1.0	< 0.22	ug/L	U
Chloromethane	0.20	0.20	1.0	< 0.20	ug/L	U
cis-1,2-Dichloroethene	0.23	0.23	1.0	< 0.23	ug/L	U
cis-1,3-Dichloropropene	0.21	0.21	1.0	< 0.21	ug/L	U
Dibromochloromethane	0.49	0.49	1.0	< 0.49	ug/L	U
Dibromomethane	0.30	0.30	1.0	< 0.30	ug/L	U
Dichlorodifluoromethane	0.40	0.40	1.0	< 0.40	ug/L	U
Ethyl Benzene	0.34	0.34	1.0	< 0.34	ug/L	U
Hexachlorobutadiene	0.37	0.37	1.0	< 0.37	ug/L	U
Isopropylbenzene	0.38	0.38	1.0	< 0.38	ug/L	U
m/p-Xylene	0.75	0.75	2.0	< 0.75	ug/L	U
Methylene chloride	0.43	0.43	2.0	< 0.43	ug/L	U
Methyl-tert-Butyl Ether (MtBE)	0.29	0.29	1.0	< 0.29	ug/L	U
n-Butylbenzene	0.27	0.27	1.0	< 0.27	ug/L	U
n-Propylbenzene	0.23	0.23	1.0	< 0.23	ug/L	U
Naphthalene	0.20	0.20	1.0	< 0.20	ug/L	U
o-Xylene	0.36	0.36	1.0	< 0.36	ug/L	U
p-Isopropyltoluene	0.25	0.25	1.0	< 0.25	ug/L	U
sec-Butylbenzene	0.21	0.21	1.0	< 0.21	ug/L	U
Styrene	0.29	0.29	1.0	< 0.29	ug/L	U
tert-Butylbenzene	0.13	0.13	1.0	< 0.13	ug/L	U
Tetrachloroethene	0.75	0.75	1.0	< 0.75	ug/L	U
Toluene	0.22	0.22	1.0	< 0.22	ug/L	U
trans-1,2-Dichloroethene	0.36	0.36	1.0	< 0.36	ug/L	U
trans-1,3-Dichloropropene	0.26	0.26	1.0	< 0.26	ug/L	U
Trichloroethene	0.30	0.30	1.0	< 0.30	ug/L	U
Trichlorofluoromethane	0.34	0.34	1.0	< 0.34	ug/L	U
Vinyl Chloride	0.29	0.29	1.0	< 0.29	ug/L	U

QUALITY CONTROL DATA			
Surrogate Compound	Spike Added	% Recovery	QC Limits
Dibromofluoromethane	10 ug/L	123	80 - 130
1,2-Dichloroethane-d4	10 ug/L	95	80 - 120
Toluene-d8	10 ug/L	102	81 - 117
4-Bromofluorobenzene	10 ug/L	88	74 - 121

Acronyms & Terminology:
MDL - method detection limit
SQL - sample quantitation limit

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Laboratory Analysis Report
Quality Control Data - Water MS/MSD
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008
INSTRUMENT ID	:C5975	DATE ANALYZED	:04/03/2008
INSTRUMENT FILE	:C8933 & C8934	TIME ANALYZED	:18:00 & 18:34
PURGE VOLUME	:10 mL	ANALYST	:SB
DILUTION	: 1X		

Analyte	Units	Sample Conc.	Spike Conc.	MS Result	MSD Result	MS %Rec.	MSD %Rec.	QC Limits MS/MSD	RPD %	QC Limits RPD	Qualifier
1,1,1,2-Tetrachloroethane	ug/L	ND	10	12.0	11.8	120	118	70-130	1.7	50	
1,1,1-Trichloroethane	ug/L	ND	10	12.2	12.0	122	120	70-130	1.7	50	
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10.5	10.7	105	107	70-130	1.9	50	
1,1,2-Trichloroethane	ug/L	ND	10	11.3	11.0	113	110	70-130	2.7	50	
1,1-Dichloroethane	ug/L	ND	10	12.4	12.1	124	121	70-130	2.4	50	
1,1-Dichloroethene	ug/L	ND	10	12.2	12.0	122	120	70-130	1.7	50	
1,1-Dichloropropene	ug/L	ND	10	11.9	11.8	119	118	70-130	0.8	50	
1,2,3-Trichlorobenzene	ug/L	ND	10	10.1	8.84	101	88	70-130	13.3	50	
1,2,3-Trichloropropane	ug/L	ND	10	9.91	10.2	99	102	70-130	2.9	50	
1,2,4-Trichlorobenzene	ug/L	ND	10	10.6	10.2	106	102	70-130	3.8	50	
1,2,4-Trimethylbenzene	ug/L	ND	10	12.2	12.0	122	120	70-130	1.7	50	
1,2-Dibromo-3-chloropropane	ug/L	ND	10	11.2	10.9	112	109	70-130	2.7	50	
1,2-Dibromoethane	ug/L	ND	10	10.3	10.4	103	104	70-130	1.0	50	
1,2-Dichlorobenzene	ug/L	ND	10	11.5	11.4	115	114	70-130	0.9	50	
1,2-Dichloroethane	ug/L	ND	10	10.9	11.0	109	110	70-130	0.9	50	
1,2-Dichloropropane	ug/L	ND	10	11.2	11.3	112	113	70-130	0.9	50	
1,3,5-Trimethylbenzene	ug/L	ND	10	12.4	12.1	124	121	70-130	2.4	50	
1,3-Dichlorobenzene	ug/L	ND	10	12.9	12.7	129	127	70-130	1.6	50	
1,3-Dichloropropane	ug/L	ND	10	10.8	10.9	108	109	70-130	0.9	50	
1,4-Dichlorobenzene	ug/L	ND	10	11.7	11.5	117	115	70-130	1.7	50	
1-Chlorohexane	ug/L	ND	10	12.3	12.2	123	122	70-130	0.8	50	
2,2-Dichloropropane	ug/L	ND	10	11.5	11.1	115	111	70-130	3.5	50	
2-Butanone	ug/L	ND	10	9.90	10.2	99	102	50-150	3.0	50	
2-Chlorotoluene	ug/L	ND	10	11.9	11.7	119	117	70-130	1.7	50	
2-Hexanone	ug/L	ND	10	9.90	10.2	99	102	50-150	3.0	50	
4-Chlorotoluene	ug/L	ND	10	11.9	11.7	119	117	70-130	1.7	50	
4-Methyl-2-Pentanone	ug/L	ND	10	11.8	11.7	118	117	50-150	0.9	50	
Acetone	ug/L	ND	10	9.42	9.34	94	93	50-150	0.9	50	
Benzene	ug/L	ND	10	12.3	12.1	123	121	70-130	1.6	50	
Bromobenzene	ug/L	ND	10	11.2	11.1	112	111	70-130	0.9	50	
Bromochloromethane	ug/L	ND	10	11.1	11.2	111	112	70-130	0.9	50	
Bromodichloromethane	ug/L	ND	10	11.7	11.3	117	113	70-130	3.5	50	
Bromoform	ug/L	ND	10	10.3	10.4	103	104	70-130	1.0	50	
Bromomethane	ug/L	ND	10	13.8	15.4	138	154	70-130	11.0	50	*
Carbon tetrachloride	ug/L	ND	10	11.8	11.6	118	116	70-130	1.7	50	

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Laboratory Analysis Report
Quality Control Data - Water MS/MSD
Volatiles - SW846/8260B

VOLATILE ORGANIC COMPOUNDS - MS/MSD SUMMARY

CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:MW-5 MS/MSD
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.23 MS/MSD
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Water
PROJECT NUMBER	:2803049	DATE SAMPLED	:03/30/2008
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:03/31/2008

Analyte	Units	Sample Conc.	Spike Conc.	MS Result	MSD Result	MS %Rec.	MSD %Rec.	QC Limits MS/MSD	RPD %	QC Limits RPD	Qualifier
Chlorobenzene	ug/L	ND	10	12.0	11.8	120	118	70-130	1.7	50	
Chloroethane	ug/L	ND	10	16.0	15.6	160	156	70-130	2.5	50	*
Chloroform	ug/L	ND	10	12.1	11.9	121	119	70-130	1.7	50	
Chloromethane	ug/L	ND	10	11.5	10.9	115	109	70-130	5.4	50	
cis-1,2-Dichloroethene	ug/L	ND	10	11.9	11.5	119	115	70-130	3.4	50	
cis-1,3-Dichloropropene	ug/L	ND	10	11.9	11.8	119	118	70-130	0.8	50	
Dibromochloromethane	ug/L	ND	10	10.3	10.6	103	106	70-130	2.9	50	
Dibromomethane	ug/L	ND	10	10.8	11.5	108	115	70-130	6.3	50	
Dichlorodifluoromethane	ug/L	ND	10	12.9	12.8	129	128	70-130	0.8	50	
Ethyl Benzene	ug/L	ND	10	11.6	10.9	116	109	70-130	6.2	50	
Hexachlorobutadiene	ug/L	ND	10	9.96	8.89	100	89	70-130	11.4	50	
Isopropylbenzene	ug/L	ND	10	12.0	11.7	120	117	70-130	2.5	50	
m/p-Xylenes	ug/L	ND	10	13.3	13.0	133	130	70-130	2.3	50	*
Methylene chloride	ug/L	ND	10	11.0	10.9	110	109	70-130	0.9	50	
Methyl-tert-Butyl Ether (MtBE)	ug/L	ND	10	9.71	9.98	97	100	70-130	2.7	50	
n-Butylbenzene	ug/L	ND	10	12.7	12.4	127	124	70-130	2.4	50	
n-Propylbenzene	ug/L	ND	10	12.5	12.2	125	122	70-130	2.4	50	
Naphthalene	ug/L	ND	10	9.57	9.50	96	95	70-130	0.7	50	
o-Xylene	ug/L	ND	10	12.3	12.1	123	121	70-130	1.6	50	
p-Isopropyltoluene	ug/L	ND	10	12.9	12.6	129	126	70-130	2.4	50	
sec-Butylbenzene	ug/L	ND	10	12.3	12.0	123	120	70-130	2.5	50	
Styrene	ug/L	ND	10	11.4	11.1	114	111	70-130	2.7	50	
tert-Butylbenzene	ug/L	ND	10	12.3	12.1	123	121	70-130	1.6	50	
Tetrachloroethene	ug/L	ND	10	10.9	10.8	109	108	70-130	0.9	50	
Toluene	ug/L	ND	10	12.4	12.0	124	120	70-130	3.3	50	
trans-1,2-Dichloroethene	ug/L	ND	10	12.2	12.0	122	120	70-130	1.7	50	
trans-1,3-Dichloropropene	ug/L	ND	10	10.3	10.5	103	105	70-130	1.9	50	
Trichloroethene	ug/L	ND	10	12.1	11.6	121	116	70-130	4.2	50	
Trichlorofluoromethane	ug/L	ND	10	15.1	14.7	151	147	70-130	2.7	50	*
Vinyl Chloride	ug/L	ND	10	12.2	11.2	122	112	70-130	8.5	50	

* Indicate Values outside of QC limits

RPD	:0	out of	65	outside limits
Spike Recovery	:7	out of	130	outside limits

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	MS % Rec.	MSD % Rec.	QC Limits	Qualifier
Dibromofluoromethane	50 ug/Kg	120	126	80 - 130	
1,2-Dichloroethane-d4	50 ug/Kg	94	97	80 - 120	
Toluene-d8	50 ug/Kg	107	107	81 - 117	
4-Bromofluorobenzene	50 ug/Kg	102	102	74 - 121	

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Laboratory Analysis Report
Quality Control Data - Soil Blank
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MBLK076
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---		
DATE RECEIVED	: ---		

Analyte	Date Prepared	Date Analyzed	Dilution	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.750	1.000	<0.750	mg/Kg	U
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.053	0.150	<0.053	mg/Kg	U
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.004	<0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.125	0.250	<0.125	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U

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Laboratory Analysis Report
Quality Control Data - Soil LCS
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MLCS076
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---	DATE ANALYZED	:04/07/2008
DATE RECEIVED	: ---		

Analyte	Units	LCS True Value	LCS Found Value	LCS % Recovery	QC Limits LCS	Qualifier
Antimony	mg/Kg	50.0	51.5	103	75 - 125	
Arsenic	mg/Kg	50.0	50.5	101	75 - 125	
Barium	mg/Kg	50.0	51.0	102	75 - 125	
Beryllium	mg/Kg	50.0	51.0	102	75 - 125	
Cadmium	mg/Kg	50.0	49.0	98	75 - 125	
Chromium	mg/Kg	50.0	50.5	101	75 - 125	
Lead	mg/Kg	50.0	51.0	102	75 - 125	
Mercury	mg/Kg	2.50	2.35	94	75 - 125	
Nickel	mg/Kg	50.0	50.0	100	75 - 125	
Selenium	mg/Kg	50.0	50.5	101	75 - 125	
Silver	mg/Kg	50.0	49.9	100	75 - 125	

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Laboratory Analysis Report
Quality Control Data - Soil Blank
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MBLK082
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---		
DATE RECEIVED	: ---		

Analyte	Date Prepared	Date Analyzed	Dilution	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.750	1.000	<0.750	mg/Kg	U
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.053	0.150	<0.053	mg/Kg	U
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.004	<0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.075	0.250	<0.075	mg/Kg	U
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.125	0.250	<0.125	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.150	0.500	<0.150	mg/Kg	U

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
Quality Control Data - Soil LCS
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:MLCS082
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	ANALYST	:SAP
DATE SAMPLED	: ---	DATE ANALYZED	:04/09/2008
DATE RECEIVED	: ---		

Analyte	Units	LCS True Value	LCS Found Value	LCS % Recovery	QC Limits LCS	Qualifier
Antimony	mg/Kg	50.0	43.5	87	75 - 125	
Arsenic	mg/Kg	50.0	43.4	87	75 - 125	
Barium	mg/Kg	50.0	44.2	88	75 - 125	
Beryllium	mg/Kg	50.0	43.3	87	75 - 125	
Cadmium	mg/Kg	50.0	42.6	85	75 - 125	
Chromium	mg/Kg	50.0	43.8	88	75 - 125	
Lead	mg/Kg	50.0	43.3	87	75 - 125	
Mercury	mg/Kg	2.50	2.80	112	75 - 125	
Nickel	mg/Kg	50.0	42.7	85	75 - 125	
Selenium	mg/Kg	50.0	43.1	86	75 - 125	
Silver	mg/Kg	50.0	43.0	86	75 - 125	

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 2'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.01
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	16

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	0.774	mg/Kg	
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	0.833	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	0.893	1.19	36.8	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	0.476	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.063	0.179	0.298	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	13.6	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	3.87	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.089	0.298	5.06	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.149	0.298	< 0.149	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.179	0.595	< 0.179	mg/Kg	U

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B1 - 15'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.02
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	37

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	< 0.238	mg/Kg	U
Arsenic, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	2.62	mg/Kg	
Barium, Total	4/2/2008	4/7/2008	1	0.750	1.190	1.59	129	mg/Kg	
Beryllium, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	1.11	mg/Kg	
Cadmium, Total	4/2/2008	4/7/2008	1	0.053	0.084	0.238	1.03	mg/Kg	
Chromium, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	49.8	mg/Kg	
Lead, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	8.41	mg/Kg	
Mercury, Total	4/2/2008	4/8/2008	1	0.002	0.003	0.006	< 0.003	mg/Kg	U
Nickel, Total	4/2/2008	4/7/2008	1	0.075	0.119	0.397	16.4	mg/Kg	
Selenium, Total	4/2/2008	4/7/2008	1	0.125	0.198	0.397	< 0.198	mg/Kg	U
Silver, Total	4/2/2008	4/7/2008	1	0.150	0.238	0.794	< 0.238	mg/Kg	U

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A-2
The Woodlands, TX 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report
RCRA-8+3 Metals 6010B/7471A

RCRA-8+3 METALS			
CLIENT NAME	:Phase Engineering, Inc	CLIENT SAMPLE ID	:B2 - 3'
PROJECT MANAGER	:Ross Doctoroff	LAB SAMPLE ID	:3070.03
PROJECT NAME	:Fusion, Inc.	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:2803049	ANALYST	:SAP
DATE SAMPLED	:03/26/2008		
DATE RECEIVED	:03/31/2008	PERCENT MOISTURE	14

Analyte	Date Prepared	Date Analyzed	Dilu-tion	MDL	SQL	MQL	Results	Units	Qualifier
Antimony, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U
Arsenic, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U
Barium, Total	4/8/2008	4/9/2008	1	0.750	0.872	1.16	107	mg/Kg	
Beryllium, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	0.465	mg/Kg	
Cadmium, Total	4/8/2008	4/9/2008	1	0.053	0.062	0.174	0.291	mg/Kg	
Chromium, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	15.3	mg/Kg	
Lead, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	3.90	mg/Kg	
Mercury, Total	4/8/2008	4/8/2008	1	0.002	0.002	0.005	< 0.002	mg/Kg	U
Nickel, Total	4/8/2008	4/9/2008	1	0.075	0.087	0.291	3.49	mg/Kg	
Selenium, Total	4/8/2008	4/9/2008	1	0.125	0.145	0.291	< 0.145	mg/Kg	U
Silver, Total	4/8/2008	4/9/2008	1	0.150	0.174	0.581	< 0.174	mg/Kg	U

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281)292-5277
FAX: (281)292-2481

May 06, 2008

ZAC MCKAUGHAN
CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

REFERENCE:

Project.....: FUSION
Project Number.....:
Lab Episode Number.....: 8959
Date Received.....: 04/18/2008

Dear ZAC MCKAUGHAN:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

☐0001 ☒0002 ☐ ☐

All the holding times were met for the tests performed on these samples. Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting A4 SCIENTIFIC for your laboratory needs on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Jessica Schulze
Project Coordinator

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
(Fax): (281) 292-2481

ANALYTICAL REPORT

CLIENT PROJECT....: FUSION
CLIENT PROJECT NUMBER...: _____

Prepared For:

CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

Date: 05/06/2008

05/06/08
Signature

LAB EPISODE NUMBER: 8959
Date Received.....: 04/18/2008
Lab Project ID....: 8959

Pradeep Divvela
Quality Assurance Coordinator
(281) 292-5277
pradeep@a4scientific.com

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME : CKG SERVICES
PROJECT NAME : FUSION
PROJECT NUMBER :
DATE SAMPLED : 04/18/2008
SAMPLE MATRIX : SOIL

CLIENT SAMPLE ID : 0002
LAB SAMPLE ID : 8959.002
DATE RECEIVED : 04/18/2008
PRINTED ON : 05/05/2008 18:01
% MOISTURE :

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

END OF REPORT

EPAHO108000593

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: PBWB3A
PROJECT NUMBER	:	DATE RECEIVED	:
DATE SAMPLED	:	PRINTED ON	: 05/05/2008 18:01
SAMPLE MATRIX	: SOLID	% MOISTURE	:

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :
DATE SAMPLED :
SAMPLE MATRIX : SOLID

CLIENT SAMPLE ID : Prep Blank
LAB SAMPLE ID : TCLPBLK0502
DATE RECEIVED :
PRINTED ON : 05/05/2008 18:01
% MOISTURE :

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILU-TION	QUANTITATION LIMIT	RESULT	Q	ANA-LYST
Chromium, TCLP	SW846-6010B	05/03/08	05/03/08	1	0.01 MG/L	ND MG/L		SS

A4 Scientific

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TCLP METALS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 05/05/2008 18:01

SAMPLE MATRIX : SOLID

LAB CONTROL SAMPLE

LCS SAMPLE ID : LCSWB3A
CLIENT SAMPLE ID :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID :
CLIENT SAMPLE ID :

COMPOUND	METHOD REFERENCE	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
Chromium, TCLP	SW846-6010B	MG/L	0.500		0.491		98			20	80 - 120

* Indicate values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery : 0 out of 1 outside limits

Magna 2762
2762

EPAHO108000597

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/28/2008**

Dear **Victor Sanchez**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2762

Expiration Date 4/28/2010

Generator: Magna Flow
Address: 14915 Eastex Freeway
Humble, TX 77396

Waste Information

Name of Waste: used oil
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
used oil from various machines in plant operations
Color: dark **Odor:** hydrocarbon **pH:** 6-9
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Magna Flow		
Address:	14915 Eastex Freeway PO Box 60709		
City, State, Zip:	Humble TX 77396		
Contact:	Jerry McCurtain	**Title:**	
Phone No:	281-448-8585	**Fax No:**	281-397-7195
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQ		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Magna Flow		
Address:	14915 Eastex Freeway PO Box 60709		
City, State, Zip:	Humble, TX 77396		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Used Oil from various machines in plant operations

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: dark **Odor:** hydrocarbon

Specific Gravity (water=1): .9 **Density:** 8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55 gal ____ ____ ____

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Recyclable Oil
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000599

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>~~140~~ 200	6-9	NAmg/l	NAmg/l	0-1%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	NAmg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPOSITIONS/ABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Used Oil	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: x
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Jerry McCurtain

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature]	
Date: 4-28-08 (Approved) Rejected	
Approval Number: 2762	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000601

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000602

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00/drum

2. **Contamination Limits (maximum limit before surcharges apply):**

None

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

~~None~~ Chlor-D-Tect ; Flash point, % solids

5. **Treatment and Handling Protocol:**

RECYCLE - Put in black oils

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

Magna 2763
2763

EPAHO108000605

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/28/2008**

Dear **Victor Sanchez**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2763

Expiration Date 4/28/2010

Generator: Magna Flow
Address: 14915 Eastex Freeway
Humble, TX 77396

Waste Information

Name of Waste: empty drums and totes
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
RCRA empty drums and totes last containing polymer
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Magna Flow		
Address:	14915 Eastex Freeway PO Box 60709		
City, State, Zip:	Humble TX 77396		
Contact:	Jerry McCurtain	**Title:**	
Phone No:	281-448-8585	**Fax No:**	281-397-7195
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Magna Flow		
Address:	14915 Eastex Freeway PO Box 60709		
City, State, Zip:	Humble, TX 77396		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Empty Drums and Totes
Detailed Description of Process Generating Waste: RCRA empty drums and totes last containing polymer

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder**
☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** none

Specific Gravity (water=1): _____ **Density:** _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒ **Drum**	☐ **Tote**	☐ **Truck**	☐ **Other (explain)**
Container Size:	55 gal	_____	_____	_____

Frequency:	☐ **Weekly**	☒ **Monthly**	☐ **Quarterly**	☐ **Yearly**

Number of Units (containers): 25 **Other:** _____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Recyclable Drums and Totes

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000607

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS/SAMPLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Empty Poly Drums	100	%
Empty Poly Totes	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: x
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Jerry McCurtain

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature]	
Date: 4-28-08 Approved Rejected	
Approval Number: 2763	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000609

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000610

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$10.00/drums
$20.00/tote

2. **Contamination Limits (maximum limit before surcharges apply):**

None

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

None

5. **Treatment and Handling Protocol:**

RECYCLE

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000611

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

Praxair 2764

2764

EPAHO108000613

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/29/2008**

Dear **Earl Didone**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2764

Expiration Date 4/29/2010

Generator: Praxair, Inc. (1800 Grant Avenue)
Address: 1800 Grant Avenue
Texas City, TX 77590

Waste Information

Name of Waste: Used Oil
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
used oil from machines in plant operations
Color: dark **Odor:** hydrocarbon **pH:** 6-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GP

OK

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Praxair Inc (Texas City - 1800 Grant Avenue)		
Address:	1800 Grant Avenue		
City, State, Zip:	Texas City, TX		
Contact:	Earl Didone	Title:	Plant Tech.
Phone No:	409/643-5635	Fax No:	409/948-6310
24/hr Phone:	Cell # 281-802-2767		
U.S. EPA I.D. No:	TXCESQG		
State I.D.		SIC Code:	

SECTION 2: Billing Information – ☒ Same as Above

Company:	Praxair, Inc		
Address:	P.O. Box 1461		
City, State, Zip:	Texas City, TX 77592		
Contact:	Same	Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Used oil from machines in plant operations

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: hydrocarbon

Specific Gravity (water=1): .9 Density: 8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 Other: ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Used Oil
Class: NA UN/NA: NA PG: na RQ: na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ >200	6-10	0mg/l	0mg/l	0-1%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil (motor)	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Earl E. Didone **Date:** 04-29-08

Printed Name/Title: Earl Didone

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thyra

Date: 4/29/08 Approved Rejected

Approval Number: 2764

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000617

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000618

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$50.00/drum
$350.00/freight
Bring empty replacement drums - open top metal for used oil

2. **Contamination Limits (maximum limit before surcharges apply):**

None

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

chlor-d-tect, flash, % solids

5. **Treatment and Handling Protocol:**

check compatibility with black oils

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000619

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

see above

8. **Management for Product Recovered/Recycled (if applicable);**

mix with black oils

EPAHO108000620

Overhaulin 2765
2765

EPAHO108000621

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/29/2008**

Dear **James Wilson**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2765

Expiration Date 4/29/2010

Generator: Overhaulin
Address: 12330 N. Gessner
Houston, TX

Waste Information

Name of Waste: Class I wastewater
TCEQ Waste Code # SPIL2191
Container Type:
Detailed Description of Process Generating Waste:
approx 1 pint of paint in storm drain, cleaned spill up w/ water
Color: red **Odor:** none **pH:** na
Physical State:
Incompatibilities: n/a
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DRP System 2

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	OVERHAULIN		
Address:	12330 NORTH GESSNER		
City, State, Zip:	HOUSTON, TEXAS		
Contact:	SANDY TENNERY	Title:	AGENT
Phone No:	281 367 3515	Fax No:	281 367 4060
24/hr Phone:	800 838 9707		
U.S. EPA I.D. No:	N/A		
State I.D.	N/A	SIC Code:	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	MILSTEAD ENVIRONMENTAL		
Address:	29707 W HAWTHORNE DR		
City, State, Zip:	SPRING, TEXAS 77386		
Contact:	SANDY TENNERY	Title:	MANAGER
Phone No:	281 367 3515	Fax No:	281 367 4060

SECTION 3: General Description of the Waste

Name of Waste: CLASS 1, WATER W/WATER REDUCIBLE ACRYLIC (RED PIGEMNT)
Detailed Description of Process Generating Waste: APPROX 1 PINT OF PAINT IN STORM DRAIN, SPILL CLEANUP WITH WATER.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: RED Odor: N/A

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 Other: ____
Texas State Waste Code No: SPIL 2/91 87
Proper U.S. DOT Shipping Name: NON DOT REGULATED MATERIAL (WATER W/WATER REDUCIBLE ACRYLIC TRAFFIC PAINT)

Class: ____ UN/NA: ____ PG: ____ RQ: ____

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	N/Amg/l	N/Amg/l	<1%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
WATER	95	%
WATER REDUCIBLE ACRYLIC TRAFFIC PAINT (SEE MSDS)	5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
STANDARD

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: N/A
TCLP Volatiles: N/A
TCLP Semi-Volatiles: N/A
Reactivity: N/A
Corrosivity: N/A
Ignitability: N/A

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/21/08

Printed Name/Title: SANDY TENNERY, AGENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: _____

Date: 4/29/08 Approved Rejected _____

Approval Number: 2765 _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65/drum

2. **Contamination Limits (maximum limit before surcharges apply):**

None

3. **Surcharge Pricing:**

None - unless off-spec
Low - Flash

4. **Special Testing Requirements:**

Flash

5. **Treatment and Handling Protocol:**

Class 1 to Landfill ; Sytem 1 processing

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000627

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

N/A

8. **Management for Product Recovered/Recycled (if applicable):**

N/A

1-8-0083

ICI Paints

TRAFFIC PAINT
Water Reducible Acrylic
4800 Series

DESCRIPTION

A waterborne acrylic marking paint for use on new or weathered concrete or asphalt pavement. Provides durable line markings for streets, parking lots, airports, factory traffic zones, tennis courts, etc. Quality resins produce excellent road adhesion. Extra gripping strength holds glass spheres for brilliant nighttime reflectivity. Available in white, lead-free yellow and other colors.

FEATURES

- Durable and weather resistant
- Fast drying
- Easy soap and water clean-up
- Low odor
- Low VOC
- Performance alternate for Federal Paint Specification TT-P-1952B

COMPOSITION

- Waterborne Acrylic Resin
- Pigmentation varies with color.
- Not manufactured with lead or mercury containing materials.

SPECIFICATION DATA

Product Numbers:	1 Gal	5 Gal
White	25524	22683
Lead-Free Yellow	20087	20088
Blue	20089	20090
Black	26565	26566
Red	43613	43614

Finish:
Flat

Clean-up Solvent:
Soap and water

Density:
11.8 lbs/gal (1.41 kg/L)

VOC:
0.95 lbs/gal (114 g/L)

Solids:
Volume - 38% +/- 1%
Weight - 57% +/- 1%

Practical Coverage:
Apply at 15.0 mils wet to cover approximately 320 lineal feet of 4 inch line depending on surface texture and porosity.

Recommended Film Thickness:
6.0 mils dry - 15.0 mils wet

Flash Point:
None

Dry Time 77°F (25°C) & 50% RH:
To traffic - 30-45 minutes

Shelf Life:
1 year minimum - unopened

Praxair 2766

2766

EPAHO108000630

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/29/2008**

Dear **Robert Long**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2766

Expiration Date 4/29/2010

Generator: Praxair (Valero)
Address: 1301 Loop 197 S.
Texas City, TX 77590

Waste Information

Name of Waste: Oily Rags
TCEQ Waste Code # Recycle
Container Type:
Detailed Description of Process Generating Waste:
rags/absorbants from cleaning up oil spills
Color: Varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BR

OK

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company : Praxair (Texas City@Valero)
Address : 1301 Loop 197 S.
City, State, Zip : Texas City TX 77590
Contact : Robert **Title :**
Phone No : 409-682-0591 **Fax :**
24 / HR Phone : 409-945-4451 (Valero)
U.S EPA I.D No : N/A
State I.D : N/A **SIC Code** NA

SECTION 2: Billing Information

Company : Praxair (Texas City)
Address : 1720 Grant Ave.
City, State, Zip : Texas City TX 77590
Contact : Robert **Title :**
Phone No : 409-682-0591 **Fax :**

SECTION 3: General Description of the Waste

Name of Waste : Oily rags

Detailed Description of the Process Generating Waste:

Rags/absorbents from cleaning up oil spills

Physical State : ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color : Varies **Odor :** None

Specific Gravity (Water=1) : **Density :** lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☐ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☐ No

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 2-5

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Non DOT regulated oily rags

Class : — **UN/NA :** — **PG :** — **RQ :** —

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	na	na mg/l	na mg/l	100 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
na mg/l	na mg/l	na mg/l	na mg/l	na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Oily rags :	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : na
TCLP Volatilies : na
TCLP Semi-Volatiles : na
Reactivity : na
Corrosivity : na
Ignitability : na

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : Robert Long **Date :** 4/25/08

Printed Name / Title : Robert Long

#2766

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information : $65.00/drum

Compliance Officer : Prabhakar Thangudu

Date : 4-29-08 **Status :** Approved Rejected

Approval Number : 2766

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☑ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes

- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcatego
- ☐ Oils Subcatego
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65.00/drum

2. **Contamination Limits (maximum limit before surcharges apply):**

None No Free liquids

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

None

5. **Treatment and Handling Protocol:**

~~RECYCLE~~ Non haz solids Bin

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

040 2767
2767

EPAHQ1080000638

7E
8-4-09
T-35
LAB

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/1/2008**

Dear **David Doyle**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2767

Expiration Date 5/1/2010

Generator: Oyo Geospace
Address: 7007 Pinemont
Houston, TX 77040

Waste Information

Name of Waste: oil and water mixture
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Collection of oil and water from compressors
Color: dark **Odor:** oil-like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Oyo Geospace		
Address:	7007 Pinemont		
City, State, Zip:	Houston, TX 77040		
Contact:	David Doyle	Title:	Safety Manager
Phone No:	713-986-4444	Fax No:	713-986-8721
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXR000077388		
State I.D.	88089	SIC Code:	3829

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Oil and Water Mixture
Detailed Description of Process Generating Waste: Collection of oil and water from compressors

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Brown, Black, Grey,Clear Odor: oil like

Specific Gravity (water=1): .90-1.0 Density: 8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2-4 Other: ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ 200	neutral	0mg/l	0mg/l	<5%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	<5000mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATION	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Oil	2-10	%
Water	90-98	%
Dirt	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect Upon Arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 1/18/08

Printed Name/Title: David Doyle

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5/1/2008 Approved Rejected

Approval Number:

Additional Information: 35.00 / Drum
Tran 200.00 Plus FSC
Process - collect oil, Treat water

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$35 drum Trans $200 + FSC

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

chlor-D-test; flash, % solids on oil
on water pH, TOC, % solids, phenols

5. Treatment and Handling Protocol:

Collect oil, treat water
Black oil

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

Black oil

8. Management for Product Recovered/Recycled (if applicable)

Black oil

Delta chem 2755

2755

EPAHO108000647

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2755

Expiration Date 4/24/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: PAO Syn fluids
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
unused off-spec product
Color: clear, colorless **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

PP
Check w/ B. for treatment and handling for PFI. Must be No 40 CFR

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

AB

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ **Title:** _____
Phone No: _____ **Fax No:** _____

SECTION 3: General Description of the Waste

Name of Waste: PAO Syn Fluids
Detailed Description of Process Generating Waste: Unused Off-spec product

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: clear, colorless **Odor:** none

Specific Gravity (water=1): 0.8 **Density:** 6.7 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55-gal _____ _____ _____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 0-40 **Other:** _____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material
Class: na **UN/NA:** na **PG:** na **RQ:** ns

EPAHO108000649

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0 mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Chevron Phillips PolyAlpha Olefin low viscosity synfluid	0-100%	
Chevron Phillips PAO med viscosity synfluid	0-100%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Menard **Date:** 4-9-08

Printed Name/Title: Tim Menard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [illegible]

Date: 4-24-08 Approved Rejected

Approval Number: 2755

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000651

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000652

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/drum + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No Solids, No Water

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

~~(1) Base oil Blendability. If not, then option 2~~
~~(2) Black oil Blendability~~
Check 1st for Base oil
- No Solids
pH, density, water solubility ~~See Product testing~~ No Water

5. **Treatment and Handling Protocol:**

~~See Product handling~~
Process to Base Oil

~~Check~~

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

(1) Base oil Blendability
(2) Black oil Blendability

8. **Management for Product Recovered/Recycled (if applicable):**

Blend w/ (1) Base oil if compatible, if not
(2) Black oil
Record ~~where it~~ which product stream it went into!

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Synfluid® PAO 2.5 cSt

Product Use: Lubricant
Product Number(s): 0001079691, 0001079862
Synonyms: 1-Dodecene, Dimer, Hydrogenated; PAO 2.5 MIL; SatinTouch™ HP 2.5; Polyalphaolefin; PAO
Product CAS No.: 151006-61-0

Company Identification:
Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Product Information:
MSDS Requests: 1 - (800) 852-5530
Technical Information: 1 - (800) 852-5531
Responsible Party: Product Safety Group
Email:msds@cpchem.com

Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

24-Hour Emergency Telephone Numbers
HEALTH:Chevron Phillips Emergency Information Center 866.442.9628 (North America) and 1.832.813.4984 (International)
TRANSPORTATION: North America: CHEMTREC 800.424.9300 or 703.527.3887
ASIA: +1.703.527.3887
EUROPE: BIG .32.14.584545 (phone) or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600

SECTION 2 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW
Clear, colorless, odorless liquid.
NFPA RATINGS: **Health:** 1 **Flammability:** 1 **Reactivity:** 0

EPAHO108000655

Signal Word:
Warning

Risk Phrases:
R20: Harmful by inhalation.
R53: May cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.

Safety Phrases:
S2: Keep out of the reach of children.
S56: Dispose of this material and its container at hazardous or special waste collection point.
S57: Use appropriate container to avoid environmental contamination.
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62: If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

****

IMMEDIATE HEALTH EFFECTS:
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.
Inhalation: Toxic; may be harmful or fatal if inhaled. Contains a synthetic hydrocarbon base oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT	EINECS	SYM	R-PHRASES
1-Dodecene, Dimer, Hydrogenated	151006-61-0	100 % weight	NE	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Dodecene, Dimer, Hydrogenated	CPCHEM	Not Established	NA	NA	NA

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.
Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.
Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.
Inhalation: For emergencies, wear a NIOSH approved air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid,

which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.
NFPA RATINGS: **Health:** 1 **Flammability:** 1 **Reactivity:** 0
FLAMMABLE PROPERTIES:
Flashpoint: 186°C (366.8°F) (Cleveland Open Cup)
Autoignition: 324°C (615.2°F)
Flammability (Explosive) Limits (% by volume in air): **Lower:** NA **Upper:** NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

Precautionary Measures: Do not breathe oil mist at concentrations above the recommended mineral oil mist exposure limit. Do not breathe mist.
General Handling Information: Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77), Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may

rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
If user operations generate airborne material, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work practices are not adequate to prevent eye contact.
Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: Teflon, or Viton
Respiratory Protection: Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: No respiratory protection is ordinarily required under normal conditions of use.
Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m3 for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Dodecene, Dimer, Hydrogenated	CPCHEM	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, colorless, odorless liquid.
pH: NA
Flashpoint: 186°C (366.8°F) (Cleveland Open Cup)
VAPOR PRESSURE: <1 mmHg @ 150 °C (302°F)
VAPOR DENSITY (AIR=1): 10
BOILING POINT: 277°C (530.6°F)
SOLUBILITY (in water): Soluble in hydrocarbon solvents; insoluble in water.
VISCOSITY: 8.3 cSt @ 40 °C (104°F)
FREEZING POINT: <-52°C (-61.6°F)
SPECIFIC GRAVITY: 0.81 @ 15.6 °C (60°F)
DENSITY: 6.733 lb/gal
POUR POINT: -52°C (-61.6°F)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: No Data Available
Incompatibility With Other Materials: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity: LD50 / rat / >5.0 g/kg
Acute Dermal Toxicity: LD50 / rabbit / >2.0 g/kg
Acute Inhalation Toxicity: LC50 / rat / 1.71 mg / 4 hour(s)The high concentrations of aerosol in this study were very difficult to generate and are unlikely to be encountered when the product is used in any reasonably foreseeable manner.

Eye Irritation: This material is not expected to be irritating to the eyes.
Skin Irritation: This material is not expected to be irritating to the skin.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains SYNTHETIC BASE OILS.
These oils are not refined from petroleum base stocks. The potential of base oil prepared by this process to cause cancer has not been specifically addressed by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the International Agency for Research on Cancer (IARC), nor the National Toxicology Program (NTP) Annual Report. However, the process conditions, chemical analysis, and the negative results of mutagenicity tests on similar materials support our opinion that these oils should not cause cancer.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms.
- 48 hour(s) / EC50 / water flea (*Daphnia magna*) / 230 mg/l

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- 96 hour(s) / EC50 / green algae (*Selenastrum capricornutum*) / >1000 mg/l
- 96 hour(s) / LC50 / rainbow trout (*Salmo gairdneri*) / >1000 mg/l

ENVIRONMENTAL FATE:
Biodegradability: 84 day(s) / 54.8 %
This material is not expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Shipping Descriptions per regulatory authority.

US DOT
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

ICAO / IATA
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	YES
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01= CA Prop 65	17 = FDA 178	33 = RCRA Waste Appendix VIII
02 = LA RTK	18 = FDA 179	34 = RCRA Waste D-List
03 = MA RTK	19 = FDA 180	35 = RCRA Waste P-List
04 =MN Hazardous Substance	20 = FDA 181	36 = RCRA Waste U-List
05 =NJ RTK	21 = FDA 182	37 = SARA Section 302
06 = PA RTK	22 = FDA 184	38 = SARA Section 313

07 = CAA Section 112 HAPs
08 = CWA Section 307
09 = CWA Section 311
10 =DOT Marine Pollutant
11 = FDA 172
12 = FDA 173
13 = FDA 174
14 = FDA 175
15 = FDA 176
16 = FDA 177
23 = FDA 186
24 = FDA 189
25 = IARC Group 1
26 = IARC Group 2A
27 = IARC Group 2B
28 = IARC Group 3
29 = IARC Group 4
30 = NTP Carcinogen
31 = OSHA Carcinogen
32 = OSHA Highly Hazardous
39 = TSCA 12 (b)
40 = TSCA Section 4
41 = TSCA Section 5(a)
42 = TSCA Section 8(a) CAIR
43 = TSCA Section 8(a) PAIR
44 = TSCA Section 8(d)
45 = WHIMS - IDL
46 = Germany D TAL
47 = Germany WKG
48 = DEA List 1
49 = DEA List 2

No components of this material were found on the regulatory lists above.

WHMIS CLASSIFICATION:
Class D, Division 1, Subdivision B: Toxic Material
Acute Lethality

CHEMICAL INVENTORY LISTINGS:

AUSTRALIA	YES (AUS)
CANADA	NO (DSL/NDSL)
CHINA	YES (IECSC)
EUROPEAN UNION	YES (EINECS)
JAPAN	YES (ENCS)
KOREA	NO (ECL)
PHILIPPINES	YES (PICCS)
UNITED STATES	YES (TSCA)

LABEL INFORMATION
Signal Word:
Warning

Symbols:
Xn - Harmful

Risk and Safety Phrases:
R20: Harmful by inhalation.
R53: May cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
S2: Keep out of the reach of children.
S56: Dispose of this material and its container at hazardous or special waste collection point.
S57: Use appropriate container to avoid environmental contamination.
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62: If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 0 Special: NA

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

REVISION STATEMENT: The following sections have been updated: 2, 15

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	PEL	- Permissible Exposure Limit
ACGIH	- American Conference of Government Industrial Hygienists	OSHA	- Occupational Safety & Health Administration
NIOSH	- National Institute for Occupational Safety & Health	NFPA	- National Fire Protection Agency
WHMIS	- Workplace Hazardous Materials Information System	IARC	- Intl. Agency for Research on Cancer
EINECS	- European Inventory of existing Commercial Chemical Substances	RCRA	- Resource Conservation Recovery Act
SARA	- Superfund Amendments and Reauthorization Act.	TSCA	- Toxic Substance Control Act
EC50	- Effective Concentration	LC50	- Lethal Concentration
LD50	- Lethal Dose	CAS	- Chemical Abstract Service
NDA	- No Data Available	NA	- Not Applicable
<=	- Less Than or Equal To	>=	- Greater Than or Equal To
CNS	- Central Nervous System	MAK	- Germany Maximum Concentration Values

This data sheet is prepared according to the latest adaptation of the EEC Guideline 67/548.
This data sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This data sheet is prepared according to the ANSI MSDS Standard (Z400.1).
This data sheet was prepared by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

EPAHO108000662

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Synfluid® PAO 100 cSt

Product Use: Lubricant
Product Number(s): 0001079893, 0001079677
Synonyms: Synfluid® PAO 100 CST; Polyalphaolefin; PAO
Product CAS No.: Mixture

Company Identification:
Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

Product Information:
MSDS Requests: 1 - (800) 852-5530
Technical Information: 1 - (800) 852-5531
Responsible Party: Product Safety Group
Email:msds@cpchem.com

24-Hour Emergency Telephone Numbers
HEALTH:Chevron Phillips Emergency Information Center 866.442.9628 (North America) and 1.832.813.4984 (International)
TRANSPORTATION: North America: CHEMTREC 800.424.9300 or 703.527.3887
ASIA: +1.703.527.3887
EUROPE: BIG .32.14.584545 (phone) or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600

SECTION 2 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW
Clear, light oil.

- A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

****

IMMEDIATE HEALTH EFFECTS:
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: Not expected to be harmful if swallowed.
Inhalation: Contains a synthetic hydrocarbon base oil. May cause respiratory irritation or other pulmonary effects

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following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT	EINECS	SYM	R-PHRASES
1-Decene Homopolymer Hydrogenated	68037-01-4	0 - 100 % weight	NA	NA	NA
1-Dodecene Polymer with 1-Octene, Hydrogenated	163149-29-9	0 - 100 % weight	NA	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Decene Homopolymer Hydrogenated	CPCHEM	5 mg/m3	NA	NA	NA
1-Dodecene Polymer with 1-Octene, Hydrogenated	CPCHEM	Not Established	NA	NA	NA

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention. Flush eyes with running water immediately while holding the eyelids open.Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes.Get medical attention if irritation persists.
Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.
Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.
NFPA RATINGS: **Health:** 0 **Flammability:** 1 **Reactivity:** 0
FLAMMABLE PROPERTIES:
Flashpoint: 290°C (554°F) (Cleveland Open Cup)
Autoignition: 310°C (590°F)
Flammability (Explosive) Limits (% by volume in air): **Lower:** NA **Upper:** NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

General Handling Information: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77), Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work practices are not adequate to prevent eye contact.
Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: Nitrile

Respiratory Protection: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m3 for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Decene Homopolymer Hydrogenated	CPCHEM	5 mg/m3	NA	NA	NA
1-Dodecene Polymer with 1-Octene, Hydrogenated	CPCHEM	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, light oil.
pH: NA
Flashpoint: 290°C (554°F) (Cleveland Open Cup)
VAPOR PRESSURE: <0.01 psia @ 20 °C (68°F)
VAPOR DENSITY (AIR=1): >7
BOILING POINT: >250°C (> 482°F)
SOLUBILITY (in water): Soluble in hydrocarbon solvents; insoluble in water.
VISCOSITY: 1250 cSt @ 40 °C (104°F)
MELTING POINT: -25°C (-13°F)
SPECIFIC GRAVITY: 0.853 @ 15.6 °C (60°F)
POUR POINT: -25°C (-13°F)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: No Data Available
Incompatibility With Other Materials: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity: LD50 / rat / > 5.0 g/kg
Acute Dermal Toxicity: LD50 / rabbit / > 2.0 g/kg
Acute Inhalation Toxicity: LC50 / not known

Eye Irritation: This material is not expected to be irritating to the eyes.
Skin Irritation: This material is not expected to be irritating to the skin.
Sensitization: Dermal - not a sensitizer / rabbit

ADDITIONAL TOXICOLOGY INFORMATION:
This product 100 CST PAO:
Repeated Dose Toxicity: 28 day / oral / rat / Dose: 0 up to 1000mg/kg/ daily / NOAEL = 1000mg/kg
Genetic Toxicity: Ames test - negative; in vitro chromosome aberration assay - negative; Mouse micronucleus assay -

EPAHO108000666

negative

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms.
- 96 hour(s) / LC50 / rainbow trout (*Salmo gairdneri*) / >1000 mg/l
- 48 hour(s) / EC50 / water flea (*Daphnia magna*) / 230 mg/l
- 96 hour(s) / EC50 / green algae (*Selenastrum capricornutum*) / >1000 mg/l

ENVIRONMENTAL FATE:
This material is not expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Shipping Descriptions per regulatory authority.

US DOT
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

ICAO / IATA
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	NO
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01= CA Prop 65	17 = FDA 178	33 = RCRA Waste Appendix VIII
02 = LA RTK	18 = FDA 179	34 = RCRA Waste D-List
03 = MA RTK	19 = FDA 180	35 = RCRA Waste P-List

04 =MN Hazardous Substance
05 =NJ RTK
06 = PA RTK
07 = CAA Section 112 HAPs
08 = CWA Section 307
09 = CWA Section 311
10 =DOT Marine Pollutant
11 = FDA 172
12 = FDA 173
13 = FDA 174
14 = FDA 175
15 = FDA 176
16 = FDA 177
20 = FDA 181
21 = FDA 182
22 = FDA 184
23 = FDA 186
24 = FDA 189
25 = IARC Group 1
26 = IARC Group 2A
27 = IARC Group 2B
28 = IARC Group 3
29 = IARC Group 4
30 = NTP Carcinogen
31 = OSHA Carcinogen
32 = OSHA Highly Hazardous
36 = RCRA Waste U-List
37 = SARA Section 302
38 = SARA Section 313
39 = TSCA 12 (b)
40 = TSCA Section 4
41 = TSCA Section 5(a)
42 = TSCA Section 8(a) CAIR
43 = TSCA Section 8(a) PAIR
44 = TSCA Section 8(d)
45 = WHIMS - IDL
46 = Germany D TAL
47 = Germany WKG
48 = DEA List 1
49 = DEA List 2

No components of this material were found on the regulatory lists above.

WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CHEMICAL INVENTORY LISTINGS:
AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances (AICS).
CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL) or are exempt from notification.
PEOPLE'S REPUBLIC OF CHINA: All the components of this product are listed on the Inventory of Existing Chemical Substances in China.
EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.
JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.
KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.
PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

EU RISK AND SAFETY PHRASES:
S56: Dispose of this material and its container at hazardous or special waste collection point.
S57: Use appropriate container to avoid environmental contamination.
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

EU Symbols: NA - Not Applicable

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0 Special: NA

EPAHO108000668

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

REVISION STATEMENT: This revision updates all sections of the MSDS please review.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	PEL	- Permissible Exposure Limit
ACGIH	- American Conference of Government Industrial Hygienists	OSHA	- Occupational Safety & Health Administration
NIOSH	- National Institute for Occupational Safety & Health	NFPA	- National Fire Protection Agency
WHMIS	- Workplace Hazardous Materials Information System	IARC	- Intl. Agency for Research on Cancer
EINECS	- European Inventory of existing Commercial Chemical Substances	RCRA	- Resource Conservation Recovery Act
SARA	- Superfund Amendments and Reauthorization Act.	TSCA	- Toxic Substance Control Act
EC50	- Effective Concentration	LC50	- Lethal Concentration
LD50	- Lethal Dose	CAS	- Chemical Abstract Service
NDA	- No Data Available	NA	- Not Applicable
<=	- Less Than or Equal To	>=	- Greater Than or Equal To
CNS	- Central Nervous System	MAK	- Germany Maximum Concentration Values

This data sheet is prepared according to the latest adaptation of the EEC Guideline 67/548.
This data sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This data sheet is prepared according to the ANSI MSDS Standard (Z400.1).
This data sheet was prepared by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

SYNFLUID® MID VISCOSITY PAO (MVP)

Product Use: Lubricant
Synonyms: 1-DECENE, HOMOPOLYMER, HYDROGENATED; SYNFLUID PAO 25 CST; PAO MID VISC
Product Cas No.: 68037-01-4

Company Identification:
Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Product Information:
MSDS Requests: (800) 852-5530
Technical Information: (800) 852-5531

24-Hour Emergency Telephone Numbers
HEALTH: Chevron Phillips Emergency Information Center 866.442.9628 (North America) and
TRANSPORTATION: North America: CHEMTREC 800.424.9300 or 703.527.3887
ASIA: 1.703.527.3887
EUROPE: BIG .32.14.584545 (phone)
or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec
Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT	EINECS	SYM	R-PHRASES
SYNTHETIC HYDROCARBON BASE OIL	68037-01-4	100 % weight	NA	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL / Peak	Ceiling	Notation
SYNTHETIC HYDROCARBON BASE OIL	CPCHEM	Not Established	NA	NA	NA

SECTION 3 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

EPAHO108000670

Clear, light oil.

- A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

****

IMMEDIATE HEALTH EFFECTS:
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: Not expected to be harmful if swallowed.
Inhalation: Not expected to be harmful if inhaled.

SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.
Ingestion: No specific first aid measures are required because this material is not expected to be harmful if swallowed.
Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms continue.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.
NFPA RATINGS: **Health:** 0 **Flammability:** 1 **Reactivity:** 0
FLAMMABLE PROPERTIES:
Flashpoint: > 250 °C (> 482°F) (Cleveland Open Cup)
Autoignition: NDA
Flammability (Explosive) Limits (% by volume in air): **Lower:** NA **Upper:** NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner

consistent with applicable regulations.
Reporting: U.S.A. regulations require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the U.S. Coast Guard National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear chemical goggles as a good safety practice.
Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Neoprene, or Nitrile Rubber
Respiratory Protection: No respiratory protection is normally required.

Occupational Exposure Limits:

Component	Limit	TWA	STEL / Peak	Ceiling	Notation
SYNTHETIC HYDROCARBON BASE OIL	CPCHEM	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear, light oil.
pH: NA
VAPOR PRESSURE: < 0.01 psia @ 20 °C (68°F)
VAPOR DENSITY (AIR=1): > 7
BOILING POINT: >260 °C (> 500°F)
SOLUBILITY (in water) : Soluble in hydrocarbon solvents; insoluble in water.
VISCOSITY: 190 CST - 230 CST @ 40 °C (104°F)
FREEZING PT: < -39 °C (< -38.2°F)
MELTING POINT: > -39 °C (> -38.2°F)
SPECIFIC GRAVITY: 0.8 - 0.9
POUR POINT: < -39 °C (< -38.2°F)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: No Data Available
Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: No Data Available
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity: The oral LD50 is not known.
Acute Dermal Toxicity: The dermal LD50 is not known.
Acute Inhalation Toxicity: The inhalation LC50 is not known.

Eye Irritation: This material is not expected to be irritating to the eyes.
Skin Irritation: This material is not expected to be irritating to the skin.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains SYNTHETIC BASE OILS.
These oils are not refined from petroleum base stocks. The potential of base oil prepared by this process to cause cancer has not been specifically addressed by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the International Agency for Research on Cancer (IARC), nor the National Toxicology Program (NTP) Annual Report. However, the process conditions, chemical analysis, and the negative results of mutagenicity tests on similar materials support our opinion that these oils should not cause cancer.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:
The environmental fate of this material is not available.

EPAHO108000673

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Shipping Descriptions per regulatory authority.

US DOT

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

ICAO / IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

04A = IARC Group 1	12 = TSCA Section 8(a) PAIR	21 = TSCA Section 5(a)
04B = IARC Group 2A	13 = TSCA Section 8(d)	25 = CAA Section 112 HAPs
04C = IARC Group 2B	15 = SARA Section 313	26 = CWA Section 311
05 = NTP Carcinogen	16 = CA Proposition 65	28 = CWA Section 307
06 = OSHA Carcinogen	17 = MA RTK	30 = RCRA Waste P-List
09 = TSCA 12(b)	18 = NJ RTK	31 = RCRA Waste U-List
10 = TSCA Section 4	19 = DOT Marine Pollutant	32 = RCRA Appendix VIII
11 = TSCA Section 8(a) CAIR	20 = PA RTK	33 = MN Hazardous Substance

No components of this material were found on the regulatory lists above.

WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CHEMICAL INVENTORY LISTINGS:
UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

EU Symbols : NA

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

REVISION STATEMENT: This revisions updates all sections, please review.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	-	Threshold Limit Value	TWA	-	Time Weighted Average
STEL	-	Short-term Exposure Limit	PEL	-	Permissible Exposure Limit
ACGIH	-	American Conference of Government Industrial Hygienists	OSHA	-	Occupational Safety & Health
NIOSH	-	National Institute of Safety & Health	NFPA	-	National Fire Protection Agency
WHMIS	-	Workplace Hazardous Materials Information System	IRAC	-	Intl. Agency for Research on Cancer
EINECS	-	European Inventory of existing Commercial Chemical Sales	RCRA	-	Resource Conservation Recovery Act
SARA	-	Superfund Amendments and Reauthorization Act.	TSCA	-	Toxic Substance Control Act
EC50	-	Effective Dose	LC50	-	Lethal Concentration
LD50	-	Lethal Dose	CAS	-	Chemical Abstract Service Number
NDA	-	No Data Available	NA	-	Not Applicable
<=	-	Less Than or Equal To	>=	-	Greater Than or Equal To
CNS	-	Central Nervous System	MAK	-	Germany Maximum Concentration Values

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

EPAHO108000676

Delta Chem 2756

2756

EPAHO108000677

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2756

Expiration Date 4/24/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: low flash products
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
unused off-spec product
Color: clear, colorless **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JP
Check w/ Bo for treatment and handling for PFI. NO O-100276 w/ use the 100276

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Low Flash Products
Detailed Description of Process Generating Waste: Unused Off-spec product

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: clear, colorless **Odor:** none

Specific Gravity (water=1): 0.67-0.88 **Density:** 5.59-7.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55-gal ____ ____ ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 0-40 **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Flammable liquids, n.o.s. (Butyl Acetate, 1-hexene)
Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:** NA

EPAHO108000679

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
79 F	neutral	0 mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
n-Butyl Acetate	0-100%	
1-hexene	0-100%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Menard **Date:** 4-9-08

Printed Name/Title: Tim Menard HS&E Department

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Thangra Date: 4-24-08 Approved Rejected Approval Number: 2756	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000681

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000682

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65 / drum + tran + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No Solids, No Water

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

~~PCBs / CES fuels compatibity~~
Density, pH, water solubility; No Solids, No Water

5. **Treatment and Handling Protocol:**

Process to Light ends

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000683

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

CES Fuels Compatibility

8. **Management for Product Recovered/Recycled (if applicable);**

Blend w/ CES Fuels

MSDS Number: **H2740** * * * * * *Effective Date:* ***11/04/04*** * * * * * *Supercedes:* ***03/15/02***

MSDS **Material Safety Data Sheet**

From: **Mallinckrodt Baker, Inc.**
222 Red School Lane
Phillipsburg, NJ 08865

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300
National Response in Canada
CANUTEC: 613-996-6666
Outside U.S. And Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

1-Hexene

1. Product Identification

Synonyms: Butyl Ethylene
CAS No.: 592-41-6
Molecular Weight: 84.16
Chemical Formula: CH3(CH2)3CH:CH2
Product Codes: N242

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1-Hexene	592-41-6	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

EPAHO108000685

J.T. Baker SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate
Flammability Rating: 4 - Extreme (Flammable)
Reactivity Rating: 2 - Moderate
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER.
Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:
Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.
Ingestion:
May produce abdominal pain, nausea. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms expected to parallel inhalation.
Skin Contact:
Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.
Eye Contact:
Vapors or mist cause eye irritation with redness and pain.
Chronic Exposure:
No information found.
Aggravation of Pre-existing Conditions:
No information found.

4. First Aid Measures

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:
If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Vomiting may cause aspiration of this material into the lungs. Aspiration is a medical emergency.
Skin Contact:
Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper

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eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:
Flash point: -26C (-15F) CC
Autoignition temperature: 253C (487F)
Flammable limits in air % by volume:
lel: 1.2; uel: 6.9
Extremely Flammable Liquid and Vapor! Vapor may cause flash fire. Contact with strong oxidizers may cause fire.
Explosion:
Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Sealed containers may rupture when heated. Sensitive to static discharge.
Fire Extinguishing Media:
Use alcohol foam, dry chemical or carbon dioxide. (Water may be ineffective.) Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.
Special Information:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking

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type tools and equipment, including explosion proof ventilation. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

---

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
- ACGIH Threshold Limit Value (TLV) -
50 ppm (TWA)
Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Use explosion-proof equipment.
Personal Respirators (NIOSH Approved):
For conditions of use where exposure to the substance is apparent and engineering controls are not feasble, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:
Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

---

9. Physical and Chemical Properties

Appearance:
Clear, colorless liquid.
Odor:
No information found.
Solubility:
Negligible (< 0.1%)
Specific Gravity:
0.67 @ 20C/4C
pH:
No information found.
% Volatiles by volume @ 21C (70F):
100

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Boiling Point:
63C (145F)
Melting Point:
-140C (-220F)
Vapor Density (Air=1):
3.0
Vapor Pressure (mm Hg):
310 @ 38C (100F)
Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Acids, oxidizers.
Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
1-Hexene (592-41-6)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

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Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

---

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: 1-HEXENE
Hazard Class: 3
UN/NA: UN2370
Packing Group: II
Information reported for product/size: 100ML

International (Water, I.M.O.)

Proper Shipping Name: 1-HEXENE
Hazard Class: 3
UN/NA: UN2370
Packing Group: II
Information reported for product/size: 100ML

International (Air, I.C.A.O.)

Proper Shipping Name: 1-HEXENE
Hazard Class: 3
UN/NA: UN2370
Packing Group: II
Information reported for product/size: 100ML

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15. Regulatory Information

```
--------\Chemical Inventory Status - Part 1\---------------------------------
Ingredient                                      TSCA  EC   Japan  Australia
----------------------------------------------  ----  ---  -----  ---------
1-Hexene (592-41-6)                              Yes  Yes   Yes      Yes

--------\Chemical Inventory Status - Part 2\---------------------------------
                                                       --Canada--
Ingredient                                      Korea  DSL   NDSL  Phil.
----------------------------------------------  -----  ---   ----  -----
1-Hexene (592-41-6)                              Yes   Yes   No     Yes

--------\Federal, State & International Regulations - Part 1\----------------
                                          -SARA 302-    ------SARA 313------
Ingredient                                RQ    TPQ     List  Chemical Catg.
```


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```
---------------------------------------  ---   -----   ----  --------------
1-Hexene (592-41-6)                      No    No      No         No

--------\Federal, State & International Regulations - Part 2\----------------
                                                    -RCRA-    -TSCA-
Ingredient                               CERCLA     261.33     8(d)
---------------------------------------  ------     ------    ------
1-Hexene (592-41-6)                      No         No         No


Chemical Weapons Convention:  No     TSCA 12(b):  No     CDTA:  No
SARA 311/312:  Acute: Yes      Chronic: Yes  Fire: Yes Pressure: No
Reactivity: No          (Pure / Liquid)
```

Australian Hazchem Code: 3[Y]E
Poison Schedule: None allocated.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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16. Other Information

NFPA Ratings: Health: **1** Flammability: **3** Reactivity: **0**
Label Hazard Warning:
DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.
Label Precautions:
Keep away from heat, sparks and flame.
Keep container closed.
Use only with adequate ventilation.
Avoid breathing vapor.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Label First Aid:
If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.
Product Use:
Laboratory Reagent.
Revision Information:
MSDS Section(s) changed since last revision of document include: 8.
Disclaimer:
****

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****

Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

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1-HEXENE

HXE

CAUTIONARY RESPONSE INFORMATION

Common Synonyms	Watery liquid	Colorless	Mild pleasant odor
alpha-Hexene Hexylene	Floats on water. Flammable, irritating vapor is produced.		

Keep people away.
Shut off ignition sources and call fire department.
Avoid contact with liquid and vapor.
Stay upwind and use water spray to "knock down" vapor.
Notify local health and pollution control agencies.
Protect water intakes.

Fire	FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemical, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.
Exposure	CALL FOR MEDICAL AID. VAPOR If inhaled, will cause dizziness, difficult breathing, or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING.
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge
Contain
Collection Systems: Skim
Chemical and Physical Treatment: Burn
Salvage waterfowl

2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: 30; Olefin
2.2 Formula: $CH_3(CH_2)_3CH = CH_2$
2.3 IMO/UN Designation: Not listed
2.4 DOT ID No.: 2370
2.5 CAS Registry No.: 592-41-6
2.6 NAERG Guide No.: 128
2.7 Standard Industrial Trade Classification: 51119

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Approved organic vapor respirator or air-line mask; protective goggles or face shield.
3.2 Symptoms Following Exposure: Inhalation may cause giddiness or incoordination similar to that from gasoline vapor. Prolonged exposure to high concentrations may induce loss of consciousness or death.
3.3 Treatment of Exposure: SKIN OR EYES: wash exposed skin areas with soap and water; thoroughly flush eyes with water to remove any splashes; launder contaminated clothing before reuse.
3.4 TLV-TWA: Notice of intended change: 30 ppm
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
3.7 Toxicity by Ingestion: Currently not available
3.8 Toxicity by Inhalation: Currently not available.
3.9 Chronic Toxicity: Currently not available
3.10 Vapor (Gas) Irritant Characteristics: Slight smarting of the eyes or respiratory system if present in high concentrations. Effect is temporary.
3.11 Liquid or Solid Characteristics: Currently not available
3.12 Odor Threshold: Currently not available
3.13 IDLH Value: Not listed.
3.14 OSHA PEL-TWA: Not listed.
3.15 OSHA PEL-STEL: Not listed.
3.16 OSHA PEL-Ceiling: Not listed.
3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

4.1 Flash Point: -15°F C.C.
4.2 Flammable Limits in Air: LEL (est.) = 1.2%; UEL not listed
4.3 Fire Extinguishing Agents: Foam, dry chemical, or carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective
4.5 Special Hazards of Combustion Products: Not pertinent
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: 521°F
4.8 Electrical Hazards: Not pertinent
4.9 Burning Rate: 8.1 mm/min.
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichometric Air to Fuel Ratio: 42.8 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 12.0 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

6.1 Aquatic Toxicity: Currently not available
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): 1.5%, 7 days
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile:
Bioaccumulation: 0
Damage to living resources: 2
Human Oral hazard: (1)
Human Contact hazard: 0
Reduction of amenities: 0

7. SHIPPING INFORMATION

7.1 Grades of Purity: Technical, 95-98%; Pure, 99+%
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrester) or pressure-vacuum
7.5 IMO Pollution Category: (C)
7.6 Ship Type: 3
7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Flammable liquid
8.2 49 CFR Class: 3
8.3 49 CFR Package Group: II
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification:

Category	Classification
Health Hazard (Blue).....	1
Flammability (Red).....	3
Instability (Yellow).....	0

8.6 EPA Reportable Quantity: Not listed.
8.7 EPA Pollution Category: Not listed.
8.8 RCRA Waste Number: Not listed
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 84.16
9.3 Boiling Point at 1 atm: 146.3°F = 63.5°C = 336.7°K
9.4 Freezing Point: –219.6°F = –139.8°C = 133.4°K
9.5 Critical Temperature: 447.4°F = 230.8°C = 504°K
9.6 Critical Pressure: 460 psia = 31.3 atm = 3.17 MN/m^2
9.7 Specific Gravity: 0.673 at 20°C (liquid)
9.8 Liquid Surface Tension: 18.8 dynes/cm = 0.0188 N/m at 20°C
9.9 Liquid Water Interfacial Tension: 31.6 dynes/cm = 0.0316 N/m at 22.7°C
9.10 Vapor (Gas) Specific Gravity: 2.9
9.11 Ratio of Specific Heats of Vapor (Gas): 1.068
9.12 Latent Heat of Vaporization: 140 Btu/lb = 80 cal/g = 3.3×10^5 J/kg
9.13 Heat of Combustion: –19,134 Btu/lb = –10,630 cal/g = -445.06×10^5 J/kg
9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution: Not pertinent
9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not available

NOTES

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1-HEXENE

HXE

9.20 SATURATED LIQUID DENSITY	
Temperature (degrees F)	Pounds per cubic foot
35	43.100
40	42.930
45	42.770
50	42.600
55	42.440
60	42.270
65	42.110
70	41.940
75	41.780
80	41.620
85	41.450
90	41.290
95	41.120
100	40.960
105	40.790
110	40.630
115	40.460
120	40.300
125	40.130
130	39.970
135	39.800
140	39.640

9.21 LIQUID HEAT CAPACITY	
Temperature (degrees F)	British thermal unit per pound-F
0	0.488
10	0.492
20	0.497
30	0.501
40	0.505
50	0.510
60	0.514
70	0.518
80	0.523
90	0.527
100	0.531
110	0.536
120	0.540
130	0.544
140	0.549

9.22 LIQUID THERMAL CONDUCTIVITY	
Temperature (degrees F)	British thermal unit inch per hour-square foot-F
0	0.937
5	0.931
10	0.924
15	0.917
20	0.910
25	0.903
30	0.896
35	0.889
40	0.882
45	0.876
50	0.869
55	0.862
60	0.855
65	0.848
70	0.841
75	0.834
80	0.827
85	0.821
90	0.814
95	0.807
100	0.800
105	0.793
110	0.786
115	0.779
120	0.772
125	0.766

9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Centipoise
70	0.257
75	0.251
80	0.245
85	0.240
90	0.234
95	0.229
100	0.224
105	0.219
110	0.214
115	0.210
120	0.206
125	0.202
130	0.198
135	0.194
140	0.190

9.24 SOLUBILITY IN WATER	
Temperature (degrees F)	Pounds per 100 pounds of water
	I N S O L U B L E

9.25 SATURATED VAPOR PRESSURE	
Temperature (degrees F)	Pounds per square inch
0	0.406
10	0.567
20	0.776
30	1.048
40	1.393
50	1.828
60	2.369
70	3.035
80	3.845
90	4.822
100	5.990
110	7.375
120	9.003
130	10.900
140	13.110
150	15.650
160	18.560
170	21.870
180	25.630
190	29.850
200	34.600
210	39.890

9.26 SATURATED VAPOR DENSITY	
Temperature (degrees F)	Pounds per cubic foot
0	0.00693
10	0.00946
20	0.01269
30	0.01678
40	0.02186
50	0.02813
60	0.03575
70	0.04492
80	0.05586
90	0.06878
100	0.08391
110	0.10150
120	0.12180
130	0.14500
140	0.17140
150	0.20130
160	0.23480
170	0.27240
180	0.31410
190	0.36030
200	0.41120
210	0.46700

9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	British thermal unit per pound-F
0	0.332
25	0.346
50	0.360
75	0.375
100	0.389
125	0.402
150	0.416
175	0.430
200	0.443
225	0.456
250	0.469
275	0.482
300	0.495
325	0.507
350	0.519
375	0.532
400	0.544
425	0.555
450	0.567
475	0.578
500	0.590
525	0.601
550	0.612
575	0.623
600	0.633

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MSDS Number: **B6184** * * * * * *Effective Date:* ***08/02/07*** * * * * * *Supercedes:* ***10/28/04***

MSDS **Material Safety Data Sheet**

From: **Mallinckrodt Baker, Inc.**
222 Red School Lane
Phillipsburg, NJ 08865

Mallinckrodt CHEMICALS J.T.Baker

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

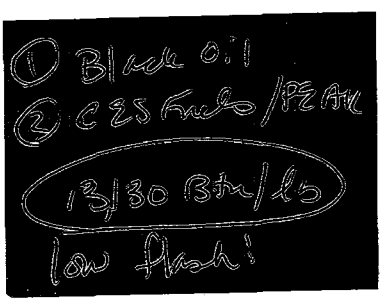
Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

N-BUTYL ACETATE

1. Product Identification



Synonyms: 1-Butyl acetate; butyl ethanoate; acetic acid, n-butyl ester
CAS No.: 123-86-4
Molecular Weight: 116.16
Chemical Formula: C6H12O2
Product Codes:
J.T. Baker: 5365, 5681, 9159, 9161, 9164, 9171, 9173, 9191, D683
Mallinckrodt: 1820, H984

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
n-Butyl Acetate	123-86-4	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES SEVERE IRRITATION TO EYES. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS

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SYSTEM.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)
Flammability Rating: 2 - Moderate
Reactivity Rating: 1 - Slight
Contact Rating: 3 - Severe (Life)
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER
Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:
Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. High concentrations have a narcotic effect.
Ingestion:
Irritant to tissues. Sore throat, abdominal pain, nausea, vomiting, diarrhea are the symptoms. Expected to have a narcotic effect. One ounce may produce severe poisoning.
Skin Contact:
This material degreases the skin. Irritation and discoloration of the skin are symptoms. Skin allergy occasionally develops. Persons who have become allergic can develop rash upon future exposure to low levels.
Eye Contact:
Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.
Chronic Exposure:
Repeated or prolonged skin contact may defat the skin and produce irritation and dermatitis. Kidney and liver damage are reported in animals.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:
Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact:
Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove

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contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Flash point: 26C (79F) CC
Autoignition temperature: 425C (797F)
Flammable limits in air % by volume:
lel: 1.7; uel: 7.6

Explosion:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Fire Extinguishing Media:

Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

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Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
-OSHA Permissible Exposure Limit (PEL):
150 ppm (TWA)
- ACGIH Threshold Limit Value (TLV)
150 ppm (TWA), 200 ppm (STEL)
Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Use explosion-proof equipment.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:
Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible.

9. Physical and Chemical Properties

Appearance:
Clear, colorless liquid.

EPAHO108000698

Odor:
Mild, fruity odor.
Solubility:
Slightly soluble in water (ca. 0.7% @ 20C)
Specific Gravity:
0.8822 at 20C/20C
pH:
No information found.
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
126C (259F)
Melting Point:
-77C (-107F)
Vapor Density (Air=1):
4.0
Vapor Pressure (mm Hg):
15 @ 25C (77F)
Evaporation Rate (BuAc=1):
1

---

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Dangerous when exposed to heat or flame; can react with oxidizing materials, strong alkalis, acids, nitrates and potassium-tert-butoxide.
Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

---

11. Toxicological Information

Toxicological Data:
Oral rat LD50: 10.8 g/kg;
inhalation rat LC50: 390 ppm/4H
Skin rabbit LD50: >17,600 mg/kg;
Irritant, skin rabbit (Std. Draize): 500 mg/24H, moderate. Irritant, eye rabbit: 100 mg moderate. Investigated as a reproductive effector.
Reproductive Toxicity:
Has shown teratogenic effects in laboratory animals.

EPAHO108000699

```
--------\Cancer Lists\-----------------------------------------------------
                                    ---NTP Carcinogen---
Ingredient                          Known    Anticipated    IARC Category
-----------------------------------  -----    -----------    -------------
n-Butyl Acetate (123-86-4)           No          No            None
```

12. Ecological Information

Environmental Fate:
When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to have a half-life of less than 1 day. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material has an estimated bioconcentration factor (BCF) of less than 100. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.
Environmental Toxicity:
96 Hr LC50 fathead minnow: 18 mg/L (flow-through);
96 Hr LC50 bluegill: 100 mg/L (Static);
96 Hr EC50 freshwater algae (Scenedesmus subspicatus): 320 mg/L;
48 Hr EC50 water flea: 44 mg/L.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: BUTYL ACETATES
Hazard Class: 3
UN/NA: UN1123
Packing Group: III
Information reported for product/size: 400LB

International (Water, I.M.O.)

Proper Shipping Name: BUTYL ACETATES
Hazard Class: 3
UN/NA: UN1123

EPAHO108000700

Packing Group: III
Information reported for product/size: 400LB

15. Regulatory Information

--------\Chemical Inventory Status - Part 1\--------

Ingredient	TSCA	EC	Japan	Australia
n-Butyl Acetate (123-86-4)	Yes	Yes	Yes	Yes

--------\Chemical Inventory Status - Part 2\--------

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
n-Butyl Acetate (123-86-4)	Yes	Yes	No	Yes

--------\Federal, State & International Regulations - Part 1\--------

Ingredient	-SARA 302- RQ	TPQ	------SARA 313------ List	Chemical Catg.
n-Butyl Acetate (123-86-4)	No	No	No	No

--------\Federal, State & International Regulations - Part 2\--------

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
n-Butyl Acetate (123-86-4)	5000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
Reactivity: No (Pure / Liquid)

Australian Hazchem Code: 3[Y]E
Poison Schedule: None allocated.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **2** Flammability: **3** Reactivity: **0**
Label Hazard Warning:
WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES SEVERE IRRITATION TO EYES. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.
Label Precautions:
Keep away from heat, sparks and flame.
Keep container closed.
Use only with adequate ventilation.

EPAHO108000701

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Avoid breathing vapor.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

EPAHO108000702

Delta chem 2757
2757

EPAHO108000703

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2757

Expiration Date 4/24/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: hydrocarbon flush
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
unused off-spec product
Color: clear, colorless **Odor:** hydrocarbon **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

check w/ BO on handling treatment and disposal for PFI. - Other must be product 10020 with

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Hydrocarbon Flush
Detailed Description of Process Generating Waste: Unused Off-spec product

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear, colorless **Odor:** hydrocarbon

Specific Gravity (water=1): 0.88 **Density:** 7.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55-gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 0-40 **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: ~~Hydrocarbons, liquid, n.o.s., combustible liquid~~ UN 3295, Hydrocarbons, liquid n.o.s., combustible liquid
Class: 3 **UN/NA:** UN3295 **PG:** III **RQ:** None

EPAHO108000705

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
170 F	neutral	0 mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
1-Dodecene	~~0-100%~~ 100	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Mernad **Date:** 4-9-08

Printed Name/Title: Tim Mernad HS&E

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-24-08 Approved Rejected

Approval Number: ~~2754~~ 2757

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000707

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000708

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/drum + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

Must have no water; Non conforming w/ water.
No Solids, No Water

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

pH, Water Solubility and Density; Any water makes these drums non conforming. No Solids, No Water

5. **Treatment and Handling Protocol:**

Process to Blend Oil

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000709

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Black oil Blendability

8. **Management for Product Recovered/Recycled (if applicable);**

Blend w/ Black oil

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

1-Dodecene (C12H24)

Product Use: Intermediate
Product Number(s): 0001015429, 0001037008, 0001087853
Synonyms: Dodecene-1 (C12); AlphaPlus™ NAO 12
Product CAS No.: 112-41-4

Company Identification:
Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Product Information:
MSDS Requests: 1 - (800) 852-5530
Technical Information: 1 - (800) 852-5531
Responsible Party: Product Safety Group
Email:msds@cpchem.com

Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

24-Hour Emergency Telephone Numbers
HEALTH:Chevron Phillips Emergency Information Center 866.442.9628 (North America) and 1.832.813.4984 (International)
TRANSPORTATION: North America: CHEMTREC 800.424.9300 or 703.527.3887
ASIA: +1.703.527.3887
EUROPE: BIG .32.14.584545 (phone) or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600

SECTION 2 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW
Clear, colorless liquid.
NFPA RATINGS: **Health:** 1 **Flammability:** 2 **Reactivity:** 0

EPAHO108000711

Signal Word:
Warning

Risk Phrases:
R66: Repeated exposure may cause skin dryness or cracking.
R65: Harmful: may cause lung damage if swallowed.
R38: Irritating to skin.

Safety Phrases:
S36/37: Wear suitable protective clothing and gloves.
S24: Avoid contact with skin.
S62: If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.
S2: Keep out of the reach of children.

****

IMMEDIATE HEALTH EFFECTS:
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin causes irritation. Prolonged or repeated skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.
Inhalation: Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT	EINECS	SYM	R-PHRASES
1-Dodecene	112-41-4	> 95 % weight	203-968-4	NA	NA
Related Materials	Various	5 % weight	NA	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Dodecene	CPCHEM	Not Established	NA	NA	NA
Related Materials	ACGIH	Not Established	NA	NA	NA

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.
Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.
Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.
FIRE CLASSIFICATION:
Classification (29 CFR 1910.1200): Combustible liquid.
NFPA RATINGS: **Health:** 1 **Flammability:** 2 **Reactivity:** 0
FLAMMABLE PROPERTIES:
Flashpoint: 77.2°C (171°F)
Autoignition: 225°C (437°F)
Flammability (Explosive) Limits (% by volume in air): **Lower:** 0.6 **Upper:** 5.4

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form: Carbon Oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8. Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

Precautionary Measures: Liquid evaporates and forms vapor (fumes) that can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85F. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not taste or swallow.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77), Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).
General Storage Information: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or disposed of properly. DO NOT USE OR STORE near heat, sparks or open flames. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work practices are not adequate to prevent eye contact.
Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: Viton, or Nitrile
Respiratory Protection: If exposure is anticipated to be greater than applicable exposure limits, wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: Air-Purifying Respirator for Organic Vapors
Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

EPAHO108000714

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
1-Dodecene	CPCHEM	Not Established	NA	NA	NA
Related Materials	ACGIH	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid.
Autoignition: 225°C (437°F)
Boiling Point: 213°C (415.4°F)
Density: 0.76 g/ml @ 15.6 °C (60°F)
Evaporation Rate: NDA
Flammability (Explosive) Limits (% by volume in air): **Lower:** 0.6 **Upper:** 5.4
Flashpoint: 77.2°C (171°F)
Freezing Point: -35°C (-31°F)
Molecular Formula: C12H24
Molecular Weight: NDA
Melting Point: NDA
Octanol / Water Partition Coefficient: log-Kow: NDA
pH: NA
Pour Point : -36.1°C (-32.98°F)
Solubility (in water): Soluble in hydrocarbon solvents; insoluble in water.
Specific Gravity: 0.76 @ 15.6 °C (60°F)
Vapor Pressure: 1 mmHg @ 50 °C (122°F)
Vapor Density (AIR=1): 5.81
Viscosity: 0.68 cSt @ 100 °C (212°F)
Percent Volatile: NDA

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: No Data Available
Incompatibility With Other Materials: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: Carbon Oxides.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity: LD50 / rat / >10,000 mg/kg
Acute Dermal Toxicity: LD50 / rabbit / >10,000 mg/kg
Acute Inhalation Toxicity: LC50 / rat / 4400 mg/m3 / 6 hour(s)

Eye Irritation: This material is not expected to be irritating to the eyes.
Skin Irritation: This material is irritating to the skin.
Sensitization: Dermal - not a sensitizer / guinea pig

ADDITIONAL TOXICOLOGY INFORMATION:
1-DODECENE
Genotoxicity: AMES = Negative; In Vitro Chromosome Aberrations in rats liver cells = Negative; Mitotic

Gene Conversion Assay = Negative

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on data for a similar material.

ENVIRONMENTAL FATE:
This material is expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Shipping Descriptions per regulatory authority.

US DOT
UN3295, HYDROCARBONS, LIQUID, N.O.S. , Combustible Liquid, III

ICAO / IATA
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	YES
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	YES
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01= CA Prop 65
02 = LA RTK
03 = MA RTK
04 =MN Hazardous Substance
05 =NJ RTK
06 = PA RTK
07 = CAA Section 112 HAPs
08 = CWA Section 307
09 = CWA Section 311
10 =DOT Marine Pollutant
11 = FDA 172
12 = FDA 173
13 = FDA 174
14 = FDA 175
15 = FDA 176
16 = FDA 177
17 = FDA 178
18 = FDA 179
19 = FDA 180
20 = FDA 181
21 = FDA 182
22 = FDA 184
23 = FDA 186
24 = FDA 189
25 = IARC Group 1
26 = IARC Group 2A
27 = IARC Group 2B
28 = IARC Group 3
29 = IARC Group 4
30 = NTP Carcinogen
31 = OSHA Carcinogen
32 = OSHA Highly Hazardous
33 = RCRA Waste Appendix VIII
34 = RCRA Waste D-List
35 = RCRA Waste P-List
36 = RCRA Waste U-List
37 = SARA Section 302
38 = SARA Section 313
39 = TSCA 12 (b)
40 = TSCA Section 4
41 = TSCA Section 5(a)
42 = TSCA Section 8(a) CAIR
43 = TSCA Section 8(a) PAIR
44 = TSCA Section 8(d)
45 = WHIMS - IDL
46 = Germany D TAL
47 = Germany WKG
48 = DEA List 1
49 = DEA List 2

No components of this material were found on the regulatory lists above.

WHMIS CLASSIFICATION:
Class B, Division 3: Combustible Liquids
Skin or Eye Irritation

CHEMICAL INVENTORY LISTINGS:

AUSTRALIA	YES (AUS)
CANADA	YES (DSL)
CHINA	YES (IECSC)
EUROPEAN UNION	YES (EINECS)
JAPAN	YES (ENCS)
KOREA	YES (ECL)
PHILIPPINES	YES (PICCS)
UNITED STATES	YES (TSCA)

LABEL INFORMATION
Signal Word:
Warning

Symbols:
Xn - Harmful

Risk and Safety Phrases:
R66: Repeated exposure may cause skin dryness or cracking.
R65: Harmful: may cause lung damage if swallowed.
R38: Irritating to skin.
S36/37: Wear suitable protective clothing and gloves.
S24: Avoid contact with skin.
S62: If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.
S2: Keep out of the reach of children.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 2 Reactivity: 0 Special: NA

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

REVISION STATEMENT: This MSDS was updated to meet a 3-year review.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	PEL	- Permissible Exposure Limit
ACGIH	- American Conference ofGovernment Industrial Hygienists	OSHA	- Occupational Safety & Health Administration
NIOSH	- National Institute for Occupational Safety & Health	NFPA	- National Fire Protection Agency
WHMIS	- Workplace Hazardous Materials Information System	IARC	- Intl. Agency for Research on Cancer
EINECS	- European Inventory ofexisting Commercial Chemical Substances	RCRA	- Resource Conservation Recovery Act
SARA	- Superfund Amendments and Reauthorization Act.	TSCA	- Toxic Substance Control Act
EC50	- Effective Concentration	LC50	- Lethal Concentration
LD50	- Lethal Dose	CAS	- Chemical Abstract Service
NDA	- No Data Available	NA	- Not Applicable
<=	- Less Than or Equal To	>=	- Greater Than or Equal To
CNS	- Central Nervous System	MAK	- Germany Maximum Concentration Values

This data sheet is prepared according to the latest adaptation of the EEC Guideline 67/548.
This data sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This data sheet is prepared according to the ANSI MSDS Standard (Z400.1).
This data sheet was prepared by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

1-DODECENE

DDC

CAUTIONARY RESPONSE INFORMATION

Common Synonyms	Watery liquid	Colorless	Mild, pleasant odor
Adacene-12 alpha-Dodecylene	Floats on water.		

Call fire department.
Avoid contact with liquid.
Notify local health and pollution control agencies.
Protect water intakes.

Fire	Combustible. Extinguish with foam, dry chemical or carbon dioxide.
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING.
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge
Contain
Collection Systems: Skim
Clean shore line
Salvage waterfowl

2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: 30; Olefin
2.2 Formula: $CH_3(CH_2)_9CH{=}CH_2$
2.3 IMO/UN Designation: Not listed
2.4 DOT ID No.: Not listed
2.5 CAS Registry No.: 6842-15-5
2.6 NAERG Guide No.: Not listed
2.7 Standard Industrial Trade Classification: 51119

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Protective gloves; goggles or face shield
3.2 Symptoms Following Exposure: No inhalation hazard expected. Aspiration hazard if ingested. Minor skin and eye irritation.
3.3 Treatment of Exposure: INHALATION: remove victim to fresh air. INGESTION: do NOT induce vomiting] Do NOT lavage] Give vegetable oil and demulcents; call physician. EYE CONTACT: flush with water for 15 min. SKIN CONTACT: wash with soap and water.
3.4 TLV-TWA: Not listed.
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
3.7 Toxicity by Ingestion: Currently not available
3.8 Toxicity by Inhalation: Currently not available.
3.9 Chronic Toxicity: Currently not available
3.10 Vapor (Gas) Irritant Characteristics: Slight smarting of eyes and respiratory system at high concentrations. The effect is temporary.
3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin.
3.12 Odor Threshold: Currently not available
3.13 IDLH Value: Not listed.
3.14 OSHA PEL-TWA: Not listed.
3.15 OSHA PEL-STEL: Not listed.
3.16 OSHA PEL-Ceiling: Not listed.
3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

4.1 Flash Point: 212°F C.C.
4.2 Flammable Limits in Air: Currently not available
4.3 Fire Extinguishing Agents: Foam, dry chemical, carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
4.5 Special Hazards of Combustion Products: Not pertinent
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: 491°F
4.8 Electrical Hazards: Not pertinent
4.9 Burning Rate: 5.8 mm/min.
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichometric Air to Fuel Ratio: 85.7 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 24.0 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

6.1 Aquatic Toxicity: Currently not available
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

7.1 Grades of Purity: 93-98% normal alpha olefins
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrester)
7.5 IMO Pollution Category: B
7.6 Ship Type: 3
7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Not listed
8.2 49 CFR Class: Not pertinent
8.3 49 CFR Package Group: Not listed.
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification: Not listed
8.6 EPA Reportable Quantity: Not listed.
8.7 EPA Pollution Category: Not listed.
8.8 RCRA Waste Number: Not listed
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 168.31
9.3 Boiling Point at 1 atm: 415°F = 213°C = 486°K
9.4 Freezing Point: –31°F = –35°C = 238°K
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 0.758 at 20°C (liquid)
9.8 Liquid Surface Tension: 25.6 dynes/cm = 0.0256 N/m at 20°C
9.9 Liquid Water Interfacial Tension: Currently not available
9.10 Vapor (Gas) Specific Gravity: Currently not available
9.11 Ratio of Specific Heats of Vapor (Gas): 1.032
9.12 Latent Heat of Vaporization: 110 Btu/lb = 61.0 cal/g = 2.55 X 10^5 J/kg
9.13 Heat of Combustion: –18,911 Btu/lb = –10,506 cal/g = –439.87 X 10^5 J/kg
9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution: Not pertinent
9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: 0.01 psia

NOTES

EPAHO108000719

1-DODECENE

DDC

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
40	48.050	85	0.465	30	0.973	40	1.699
50	47.800	90	0.476	40	0.965	50	1.541
60	47.540	95	0.486	50	0.957	60	1.404
70	47.290	100	0.497	60	0.949	70	1.283
80	47.040	105	0.507	70	0.941	80	1.177
90	46.780	110	0.517	80	0.933	90	1.083
100	46.530	115	0.528	90	0.924	100	0.999
110	46.280	120	0.538	100	0.916	110	0.924
120	46.020	125	0.549	110	0.908	120	0.858
130	45.770	130	0.559	120	0.900	130	0.798
140	45.520	135	0.570	130	0.892	140	0.744
150	45.270	140	0.580	140	0.884	150	0.695
160	45.010	145	0.590	150	0.875	160	0.651
170	44.760	150	0.601	160	0.867	170	0.611
180	44.510			170	0.859	180	0.575
190	44.250			180	0.851	190	0.542
200	44.000			190	0.843	200	0.511
210	43.750			200	0.835	210	0.483

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	I	70	0.003	70	0.00010	0	0.337
	N	80	0.005	80	0.00014	25	0.352
	S	90	0.007	90	0.00021	50	0.367
	O	100	0.011	100	0.00029	75	0.381
	L	110	0.015	110	0.00042	100	0.396
	U	120	0.021	120	0.00058	125	0.410
	B	130	0.030	130	0.00080	150	0.424
	L	140	0.042	140	0.00109	175	0.438
	E	150	0.057	150	0.00146	200	0.452
		160	0.077	160	0.00196	225	0.465
		170	0.104	170	0.00259	250	0.479
		180	0.138	180	0.00339	275	0.492
		190	0.183	190	0.00441	300	0.505
		200	0.239	200	0.00568	325	0.517
		210	0.310	210	0.00726	350	0.530
		220	0.400	220	0.00922	375	0.542
		230	0.511	230	0.01162	400	0.555
		240	0.649	240	0.01455	425	0.567
		250	0.819	250	0.01809	450	0.579
		260	1.026	260	0.02236	475	0.590
		270	1.279	270	0.02747	500	0.602
		280	1.583	280	0.03356	525	0.613
		290	1.949	290	0.04077	550	0.624
		300	2.387	300	0.04926	575	0.635
						600	0.646

EPAHO108000720

Gulf Stream 2758
2758

EPAHO108000721

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2008**

Dear **Larry**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2758

Expiration Date 4/24/2010

Generator: Gulf Stream Marine (Industrial Terminal)
Address: 13901 Industrial Road
Houston, TX 77015

Waste Information

Name of Waste: TPH contaminated soil
TCEQ Waste Code #: CESQ4891
Container Type: open top box
Detailed Description of Process Generating Waste:
soil contaminated with hydraulic oil from machinery
Color: dark **Odor:** none to slight **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BRP OK

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Gulf Stream Marine		
Address:	13901 Industrial Road		
City, State, Zip:	Houston TX 77015		
Contact:	Larry Gutierrez	**Title:**	HSE Manager
Phone No:	713-816-3052	**Fax No:**	713-453-3898
24/hr Phone:	713-816-3058		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – X☐ Same as Above

Company:	Gulf Stream Marine		
Address:	10000 Manchester Avenue Suite C		
City, State, Zip:	Houston, TX 77012		
Contact:	Larry Gutierrez	**Title:**	
Phone No:	713-816-3052	**Fax No:**	713-453-3898

SECTION 3: General Description of the Waste

Name of Waste: TPH Contaminated Soil
Detailed Description of Process Generating Waste: Soil contaminated with hydraulic oil from machinery

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
X Solid ☐ Filter Cake ☐ Combination

Color: Dark **Odor:** none to slight

Specific Gravity (water=1): ~~1.1~~ NA **Density:** ~~8.4~~ NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes X☐ No

Does this material contain any para substituted phenolic compounds? ☐ Yes X☐ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes X☐ No
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843
2844	2851	2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511											

Layers: X Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck X Other (explain)
Container Size: ____ ____ ____ Open top box

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly X☐ One Time

EPAHO108000723

Number of Units (containers): 1 **Other:** _____

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ **Yes** X☐ **No**

If "Yes", Is it: ☐ **D001 Ignitable** ☐ **D002 Corrosive** ☐ **D003 Reactive**

Characteristic for Toxic Metals: ☐ **D004** ☐ **D005** ☐ **D006** ☐ **D007** ☐ **D008** ☐ **D009** ☐ **D010** ☐ **D011**

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) _____

Texas Waste Code Number: CESQ4891

Proper US DOT Shipping Name: Non RCRA Non DOT Regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ 200	neutral	0mg/l	0mg/l	~~0%~~ 100

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Soil	99-100	%
Hydraulic Oil	0-1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X

EPAHO108000724

Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on X☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4-23-08

Printed Name/Title: Larry Gutierrez

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	
Date: 4-24-08 (Approved) Rejected	
Approval Number: 2758	

EPAHO108000725

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$350.00/load
$ 75.00/yard

2. **Contamination Limits (maximum limit before surcharges apply):**

~~NA~~ ~~should not have any free floating liquids~~
No Free liquids (anywhere)

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ ~~No free floating liquids should be present~~
No free liquids

5. **Treatment and Handling Protocol:**

REDIRECT
Class 1 solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

2759 Enterprise Products
2759

EPAHO108000728

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date **4/25/2008**

Dear **Roy Hebert**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2759

Expiration Date 4/25/2010

Producer: Enterprise Products Operating, L.P. - Port Allen
Address: 2220 North River Rd.
Port Allen, LA 70767

Material / Product Information

Name of Material / Product Spent potassium hydroxide (for product recycling)
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Reinery grade propylene flows upward through two layers of KOH briquettes. In the presence of oxygen molecule (provided by the water that is injected) COS is converted in some sort of sulfide which is entrained in the melted KOH that gathers in the bot

Color: Dark **Odor:** Ammonia **pH:** 12-14
Physical State:
Incompatibilities: Acids
Safety Related Data/Special Handling:
std PPE for high pH materials with sulfides

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Need Sulfides limit quantified - Low will not work.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Material Producer Information

Company:	Enterprise Products Operating, LLC - Port Allen		
Address:	2220 North River Road		
City, State, Zip:	Port Allen, LA 70767		
Contact:	Rory Hebert	**Title:**	Field Environmental Scientist
Phone No:	225-381-3459	**Fax No:**	225-381-3476
24/hr Phone:	225-278-5496		
U.S. EPA I.D. No:	LAR000033100		
State I.D.	D0022	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating, LLC - Port Allen		
Address:	2220 North River Road		
City, State, Zip:	Port Allen, LA 70767		
Contact:	Rory Hebert	**Title:**	Field Environmental Scientist
Phone No:	225-381-3459	**Fax No:**	225-381-3476

SECTION 3: General Description of the Material / Product

Name of Material / Product: Spent potassium hydroxide (for product recycling)
Detailed Description of Process Generating or Producing the Material / Product: Refinery grade propylene flows upward through two layers KOH briquettes. In the presents of oxygen molecule (provided by the water that is injected) COS is converted into some sort of sulfide which is entrained in the melted KOH that gathers in the bottom of the vessel. Periodically the liquid or spent KOH that gathers in the bottom of the vessel gets drained to a holding tank for disposal.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark **Odor:** ammonia

Specific Gravity (water=1): 1.203 **Density:** 10.03 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 4000 ____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2-3 **Other:** ____

Proper U.S. DOT Shipping Name: PRODUCT UN1760. Corrosive Liquids. n.o.s. (potassium hydroxide)

Class: 8 **UN/NA:** UN 1760 **PG:** II **RQ:** 1000

Flash Point	pH	N/A	N/A	Solids
>~~150~~ 200	12-14			0-2%

Oil&Grease	TOC	Zinc	Copper	Nickel
namg/l	namg/l	namg/l	namg/l	namg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	75-80	%
Potassium Hydroxide	20-25	%
Carbon	1-2	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Standard PPE for high pH materials with sulfides

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Acids

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above an attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willfi omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materia tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/15/08

Printed Name/Title: Rory Hebert/Field Environmental Scientist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: [signature]

Date: 4-25-08 Approved Rejected

Approval Number: 2759

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Management: $0.40/gallon
Freight: $900.00/load
Washout: $150.00 each

2. **Contamination Limits (maximum limit before surcharges apply):**

Solids must be <0.75% suspended solids ; $.01 per gallon for every 1% solids over .75%
Extra $.04/ gallon for press processing if solids are present.

3. **Surcharge Pricing:**

Solids greater than 0.75% - charge additional $0.15/gallong plus $600.00/load transportation plus current fuel surcharge

4. **Special Testing Requirements:**

Specific Gravity,) #'s per gallon, % caustic, Sulfides titration
% ~~suspended~~ solids
pH
visual for oil and grease (NO OIL/GREASE ALLOWED!!) - No visible oil layer or oil sheen.
Determine % caustic by titration to pH 4 or by using specific gravity and the "Handy Math Calculation" - see shared drive
~~Sulfides must be low~~

5. **Treatment and Handling Protocol:**

CAN ONLY SHIP TO DERIDDER!!
If solids are <0.75% and caustic >7% then load in DeRidder tank/trailer
If solids are <0.75% and caustic <7% then put in RO tank and perfrom RO
If solids are >0.75% and caustic >7% then filter and then put in DeRidder tank/trailer
If solids are >0.75% and caustic <7% then filter first and then put in RO tank to perfrom RO

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000732

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

DX 1
2760

2760

EPAHO108000734

7E
8-4-09
LAB
T-35

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/25/2008**

Dear **Dear Artero or Todd Conner**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2760

Expiration Date 4/25/2010

Generator: DXI Industries, Inc.
Address: 1919 Jacintoport Blvd
Houston, TX 77015

Waste Information

Name of Waste: Dilute sodium hydroxide solution
TCEQ Waste Code # 41031191
Container Type:
Detailed Description of Process Generating Waste:
Wastewater from tank after pH was adjusted
Color: clear **Odor:** none **pH:** 10-12
Physical State:
Incompatibilities: acid
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

OK

SECTION 1: Generator Information

Company:	DXI Industries, Inc.		
Address:	1919 Jacintoport Blvd		
City, State, Zip:	Houston, TX 77015		
Contact:	Todd Conner	**Title:**	C4 Env
Phone No:	2814599992	**Fax No:**	2814599960
24/hr Phone:	2818444299		
U.S. EPA I.D. No:	TXD988026282		
State I.D.	80181	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	C 4 Environmental Services LLC		
Address:	P.O. Box 692375		
City, State, Zip:	Houston, Texas 77269		
Contact:	Todd Conner	**Title:**	C4 Env
Phone No:	2814599992	**Fax No:**	2814599960

SECTION 3: General Description of the Waste

Name of Waste: Dilute Sodium Hydroxide Solution
Detailed Description of Process Generating Waste: waste water tanks After ph is adjusted

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear **Odor:** none

Specific Gravity (water=1): ~~1~~ 1.0 **Density:** ~~1~~ 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 5000 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): _____ **Other:**
Texas State Waste Code No: ~~pending~~ 410 31191
Proper U.S. DOT Shipping Name: ~~Sodium Hydroxide Solution~~ NON-RCRA; NON-DOT Regulated Material
Class: ~~8~~ na **UN/NA:** ~~1824~~ na **PG:** ~~III~~ na **RQ:** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	10-12	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	0mg/l	<100mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Sodium Hydroxide	1-5	%
Sodium Bisulfite	1-5	%
water	85-95	%
bleach	1-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

CES rept

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
acid

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: T. Conner **Date:** 4/18/08

Printed Name/Title: Todd Conner, C4 Env Ops Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Phengla

Date: 4-25-08 Approved Rejected

Approval Number: 2760

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☒ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000739

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000740

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

12¢/gal
Trans 200/HR + FSC

2. Contamination Limits (maximum limit before surcharges apply):

TOC - 15,000

3. Surcharge Pricing:

3¢/5000 TOC

4. Special Testing Requirements:

pH, TOC, solids, metals
~~None~~

5. Treatment and Handling Protocol:

Waste water
Use in disposal if ~~caustic~~ Caustic material is needed.

6. Treated Wastewater Discharge Subcategory:

☒ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000741

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Gary Brauckman
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/21/08

From: Miles Root

Lab Memo: 08-065

Subject: **C4 Environmental - DSI Chemical Evaluation 0408-70**

A sample of weak caustic from C4 Environmental - DSI Chemical, Houston, has been evaluated as a potential receipt for processing at CES. This material is alkaline water from a product wash. This material analyzes as 1.8% caustic as NaOH. It has a pH of 14, indicating that it will be classified as a hazardous waste. The TOC of 1282 mg/L is low and this material contains no phenols. The metals are acceptable.

This material will be best treated by mixing with our "normal" water streams and going through our water treatment processing. It will consume slightly more acid but the caustic strength is not too high to be of any major issue. This sample treats easily in the lab. A base price of $0.1/gal should cover our basic chemical costs, as additional acid for treating is minimal. The metals summary is shown below.

C4 Env - DSI Chem	
Evaluation 0408-70	
Metals	
Cd	0.125
Cu	0.007
Ni	0.726
Zn	0.647

2741

Hydril
442
2741

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/21/2008**

Dear **Carmen Ortega**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2741

Expiration Date 4/21/2010

Generator: Hydril Company LP (HTC)
Address: 3300 Sam Houston Pkwy E
Houston, TX 77032

Waste Information

Name of Waste: Batteries
TCEQ Waste Code #: UNIV
Container Type: pallet
Detailed Description of Process Generating Waste:
Recyclable batteries from automobiles and equipment
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: bases
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Hydril Company LP (HTC)		
Address:	3300 Sam Houston Parkway E		
City, State, Zip:	Houston, TX 77032		
Contact:	Kelvin Parker	**Title:**	HS&E Coordinator
Phone No:	281-449-2000	**Fax No:**	281-985-8835
24/hr Phone:	832-677-5582		
U.S. EPA I.D. No:	TXD981609027		
State I.D.	31401	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Batteries
Detailed Description of Process Generating Waste: Recyclable batteries from Automobiles & equipment

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Varies **Odor:** None

Specific Gravity (water=1): 1.5 **Density:** 12 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** ☒ **Other (explain)**
Container Size: ____ ____ ____ Batteries on pallet

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 20 **Other:** ____
Texas State Waste Code No: Universal Waste
Proper U.S. DOT Shipping Name: Batteries, Wet, filled with Acid
Class: 8 **UN/NA:** UN2794 **PG:** III **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	N/A	< 5mg/l	< 5mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

EPAHO108000745

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Recyclable Lead Acid Batteries	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
~~None~~ std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
~~None~~ bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X-Universal Waste
TCLP Volatiles: X-Universal Waste
TCLP Semi-Volatiles: X-Universal Waste
Reactivity: X-Universal Waste
Corrosivity: X-Universal Waste
Ignitability: X-Universal Waste

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/16/08

Printed Name/Title: Khosrow Dibai

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: _____

Date: 4-21-08 Approved Rejected _____

Approval Number: 2741 _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000747

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000748

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Std Rate sheet on shared drive

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Universal Waste; Process to a recycler.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000749

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

Part of Hanson
2742
3 of 3

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2742

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Farnsworth Fireboat
Address: 809 Lakeside Drive
Channelview, TX 77530

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: brown/black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids, bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

ok

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority -Farnsworth fireboat		
Address:	809 lakeside Drive		
City, State, Zip:	Channelview, TX 77530		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2827
24/hr Phone:	713.676.1460		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒ **Drum**	☐ **Tote**	☐ **Truck**	☐ **Other (explain)**
Container Size:	55			

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**

Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000753

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 (Approved) Rejected

Approval Number: 2742

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000755

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000756

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ chlor-d-tect, flash point

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000757

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable);**

black oil

EPAHO108000758

Port of Houston 2743

2743

EPAHO108000759

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2743

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: Grease
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
Used and unused grease from greasing equipment
Color: dark **Odor:** none **pH:** 7-10
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	12555 Port Rd.		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Mike Rielly	Title:	Manager
Phone No:	713.291.6140	Fax No:	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	Title:	
Phone No:	713.6702463	Fax No:	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Grease
Detailed Description of Process Generating Waste: Used and unused grease from greasing equipment

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: none

Specific Gravity (water=1): 1 Density: 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108000761

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	0mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Grease	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
na

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
na

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
na

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-21-08 (Approved) Rejected

Approval Number: 2743

EPAHO108000762

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000763

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000764

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$ 40 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

CLASS I Solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

N/A

8. **Management for Product Recovered/Recycled (if applicable);**

N/A

EPAHO108000766

Part of Houston
4442
2744

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2744

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: flourescent light ballasts (non-PCB)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
used non-working flourescent bulbs
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	12555 Port RD		
City, State, Zip:	Pasadena, TX		
Contact:	Mike Reilly	**Title:**	Manager
Phone No:	281.291.6140	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	~~TX~~ CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Flourescent Light Ballasts (non-PCB)
Detailed Description of Process Generating Waste: Used non-working flourescent bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): ~~2~~ na **Density:** ~~8-10~~ na lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 Gal			

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: Recycle

Proper U.S. DOT Shipping Name: Recycle

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	namg/l	namg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
namg/l	namg/l	namg/l	namg/l	namg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Non-PCB Flourscent ballasts	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 Approved Rejected

Approval Number: 2744

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000771

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000772

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$50 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

Recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000773

7. **Tests for Product Recovered/Recycled (if applicable):**

na

8. **Management for Product Recovered/Recycled (if applicable);**

na

Conrae Machine 2745
2745

EPAHO108000775

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Joe Clark/Jesse Garner**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2745

Expiration Date 4/21/2010

Generator: Conroe Machine
Address: 101 Industrial Court
Conroe, TX 77301

Waste Information

Name of Waste: empty drums
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
empty drums last containing various non-hazardous products
Color: na **Odor:** na **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level d ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Conroe Machine
Address: 101 Industrial Court
City, State, Zip: Conroe, TX 77301
Contact: Joe Clark Title:
Phone No: (936) 494-2567 Fax No: 936 494-2560
24/hr Phone:
U.S. EPA I.D. No:
State I.D. SIC Code:

SECTION 2: Billing Information – ☑ Same as Above

Company:
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Waste

Name of Waste: Empty drums
Detailed Description of Process Generating Waste: Empty drums last containing various non-hazardous product

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color: — NA Odor: NA

Specific Gravity (water=1): ~~1-1.5~~ NA Density: ~~NA~~ NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☑ Yearly
Number of Units (containers): 1 Other:
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Recyclable empty drums
Class: — UN/NA: — PG: — RQ: —

EPAHO108000777

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
—	—	0 mg/l	0 mg/l	100 %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	— mg/l	— mg/l	— mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Plastic Drums	0 - 100	%
Steel Drums	0 - 100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: Y
TCLP Volatiles: Y
TCLP Semi-Volatiles: Y
Reactivity: Y
Corrosivity: Y
Ignitability: Y

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** ____

Printed Name/Title: Not Required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Prabhakar Mangla

Date: 4-21-08 Approved Rejected

Approval Number: 2745

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000779

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000780

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$10 drm

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000781

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

EPAHO108000782

Port of Houston 2746
2746

EPAHO108000783

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2746

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: flourescent light ballsts (non-PCB)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
used non-working flourescent bulbs
Color: na **Odor:** na **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	12555 Port RD		
City, State, Zip:	Pasadena, TX		
Contact:	Mike Reilly	**Title:**	Manager
Phone No:	281.291.6140	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Flourescent Light Ballasts (non-PCB)
Detailed Description of Process Generating Waste: Used non-working flourescent bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: ~~varies~~ na **Odor:** ~~none~~ na

Specific Gravity (water=1): ~~2~~ na **Density:** ~~8-10 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Recycle
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000785

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	namg/l	namg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
namg/l	namg/l	namg/l	namg/l	namg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Non-PCB Flourscent ballasts	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 Approved Rejected

Approval Number: 2746

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000787

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000788

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$50/drum Trans 70/hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Univ waste

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000789

Port of Houston 2747
2747

EPAHO108000790

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/22/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2747

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: crushed light bulbs
TCEQ Waste Code #: UNIV320H
Container Type:
Detailed Description of Process Generating Waste:
burned out bulbs
Color: na **Odor:** na **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	1255 Port Road		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Mike Reilly	**Title:**	Manager
Phone No:	281.291.6140	**Fax No:**	713-670-2427
24/hr Phone:	281.291.6140		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Crushed light bulbs
Detailed Description of Process Generating Waste: Burned out bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: ~~white~~ na **Odor:** ~~none~~ na

Specific Gravity (water=1): ~~.95-1~~ na **Density:** ~~8 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 Gal			

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: UNIV320H

Proper U.S. DOT Shipping Name: Environmentally Hazardous substance, Solid, N.O.S., 9, UN3077, PG III

Class: 9 **UN/NA:** UN3077 **PG:** III **RQ:** NA

EPAHO108000792

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	~~5-8~~ NA	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
~~<1500mg/l~~ NA	~~<1500mg/l~~ NA	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Flourscent bulbs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 Approved Rejected

Approval Number: 2747

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000794

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000795

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

1.25/lb Trans $70/hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Univ waste

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000796

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

EPAHO108000797

2748 Port of Houston - M/V
2748

EPAHO108000798

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/6/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2748

Expiration Date 5/6/2010

Generator: Port of Houston Authority-M/V Sam Houston
Address: 8400 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Floor Dry
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
clean up of oil spills
Color: white/gray **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BRP
OK

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority - M/V Sam Houston		
Address:	8400 Clinton Drive		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environmental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Floor dry
Detailed Description of Process Generating Waste: Clean up of oil spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White/Grey **Odor:** oil like

Specific Gravity (water=1): 1.4 **Density:** 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000800

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent	80-98	%
Oil (motor oil, hydraulic oil)	2-20	%
Misc trash and debris	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4-28-08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature] Date: 5-6-08 Approved Rejected Approval Number: 2748	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000802

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000803

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

must have no free floating liquids

5. **Treatment and Handling Protocol:**

CLASS 1 Solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000804

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2748

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: grease
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
used and unused grease from greasing equipment
Color: dark **Odor:** none **pH:** 7-10
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	12555 Port Rd.		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Mike Rielly	**Title:**	Manager
Phone No:	713.291.6140	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Grease
Detailed Description of Process Generating Waste: Used and unused grease from greasing equipment

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Dark **Odor:** none

Specific Gravity (water=1): 1 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000806

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	0mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Grease	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
na

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
na

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
na

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 Approved Rejected

Approval Number: 2748

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000808

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000809

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$40/drum Trans $70/hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

No free liquids.

5. **Treatment and Handling Protocol:**

Class 1 solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

EPAHO108000811

Port of Houston 2749
2749

EPAHO108000812

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2749

Expiration Date 4/21/2010

Generator: Port of Houston Authority-Farnsworth Fireboat
Address: 809 Lakeside Drive
Channelview, TX 77530

Waste Information

Name of Waste: used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: brown/black **Odor:** .8-1 **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DR
OK

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority -Farnsworth fireboat		
Address:	809 lakeside Drive		
City, State, Zip:	Channelview, TX 77530		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2827
24/hr Phone:	713.676.1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**

Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000814

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-21-08 Approved Rejected

Approval Number: 2749

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000816

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000817

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35/drum TRANS 70°°/hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

test oil phase for flash point, chlor-D-test; test ~~for~~ water for pH, phenols, % solids

5. **Treatment and Handling Protocol:**

Process to black oil.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000818

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

Burbank Barrel 2750
2750

EPAHO108000820

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2008**

Dear **Joshua Billett**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2750

Expiration Date 4/21/2010

Generator: Burbank Barrel & Drum
Address: 1402 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: drum wash water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
cleaning of oily drums
Color: brown **Odor:** oil like **pH:** 6-12
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Burbank Barrel & Drum		
Address:	1402 Clinton Drive		
City, State, Zip:	Galena Park, TX 77547		
Contact:	Joshua Billett	Title:	Manager
Phone No:	713-675-0941	Fax No:	713-451-8474
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	SIC Code:	8/131

SECTION 2: Billing Information – ☐ Same as Above

Company:	Burbank Barrel & Drum		
Address:	P.O. Box 234		
City, State, Zip:	Galena Park, TX 77547		
Contact:	Joshua Billett	Title:	Manager
Phone No:	713-675-0941	Fax No:	713-451-8474

SECTION 3: General Description of the Waste

Name of Waste: Drum Wash Water
Detailed Description of Process Generating Waste: Cleaning of Oily Drums

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: oil like

Specific Gravity (water=1): .90-1.0 Density: 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 5000 ____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 Other: ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

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EPAHO108000822

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>140~~ 200	6-12	0mg/l	0mg/l	2-10%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	5-50mg/l	0-5mg/l	5-25mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	50-90	%
Oil	10-50	%
Sludge/dirt	0-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES Analytical Report

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Marvin R Clarke **Date:** 4/17/08

Printed Name/Title: Marvin R. Clarke - Compliance Officer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rochelle R Reynolds

Date: 4-21-08 Approved Rejected

Approval Number: 2750

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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EPAHO108000824

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000825

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Water Phase: .25 per gal
Oil Phase CES Pays .30 per gallon on net oil
Trailer Rinse (If Necessary) $125.00
Transportation $70.00/hour plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA Process water to System 1. This waste has high Nickel and Zinc.

5. **Treatment and Handling Protocol:**

Treat Water for high metals and solids Process to System 1 because of high metals.
Treat Oil as emulsion · If nickel and zinc are high ~~and~~ may have to send this water to Newpark. Check with Gary P.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000826

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

Oil to Black Oil Market

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Gary Brauckman
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 03/11/08

From: Miles Root

Lab Memo: 08-034

Subject: **Burbank Barrel & Drum Evaluation 0308-45**

A sample of oily water from Burbank Barrel & Drum, Galena Park, has been evaluated as a potential receipt for processing at CES. This sample, evaluation 0308-45, is described as oily water sludge. While the oil can be recovered, this sample needed to be acidified and heated in order to do so. The metals on the treated water are high, and we will most likely want to send the recovered water to Newpark. This should be figured into our pricing.

This sample is an emulsion that will need to be heated and acidified in order to recover the oils. The neat sample has a pH of 12. Centrifuging this sample recovers only a trace of solids. The sample will need to be acidified to recover the oils. Acidifying this sample does produce excessive foaming, so that will need to be watched. It's best to add the acid slowly. The recovered oil is approximately 14% of the sample. The chlo-d-tect on the oil is 800 mg/L, an acceptable level. The phenolic content on the treated water is non-detected. The metals are high in nickel and zinc on the treated water. The metals results are: Cd – 0.366; Cu -0.902; Ni – 16.2; Zn – 28.1. All results are in mg/L. The very high nickel and zinc on this water will require either gross dilution with good water or opting to send this water to Newpark. This potential additional cost should be calculated into the pricing to obtain this stream.

Burbank Barrell & Drum
CES Profile # 2750

Mercury Environmental Services, Inc.

CES-2750

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: 7134175737
Fax: (713) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 8050365

Client Sample ID: Oil Emulsion
Extended ID: Burbans-Barrell / PO#0508-30

Sample Collect Date: 5/15/2008 @ 9:00:00 AM
Sample Receipt Date: 5/15/2008 @ 3:11:00 PM

Sample Type: Grab

Test Group / Method

Total Organic Halogens Method: SW-846 9020	MDL	Result	Units	Analyst: CC Date / Time
Total Organic Halogens		**488**	**ppm**	5/23/2008 / 8:29 AM

Flags: H: **Exceeds "High Limit"** L: **Below "Low Limit"** RL=regulatory limit

John Keller

John Keller, Ph.D., Lab Director

Friday, May 23, 2008
Date

Report Date: *23-May-08*

05/23/2008 11:43 2814764406 MES PAGE 01/02

EPAHO108000829

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536

1

COMPANY NAME: (BILL TO:) CES Environmental

COMPANY ADDRESS:

CITY STATE ZIP

CONTACT PERSON'S NAME: Gary Brauchmann

CONTACT PERSON'S PHONE: FAX #:

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Oil Emulsion	0508-30	Burbank & Barrell - Emulsion

PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

5 REMARKS

TURNAROUND TIME: 07D

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No

Please circle one. If Yes, please describe below or include separate sheet detailing requirements.

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIONS	REMARKS
Oil Emulsion	G	5-15-08	9:00	LiQ	1		oil phase
							20C

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Gary Brauchmann

RELINQUISHED BY: (Signature) DATE 5-15-08 TIME 10:35 RECEIVED BY: (Signature)

7

RELINQUISHED BY: (Signature) DATE 5/15 TIME 3:11 pm RECEIVED BY: (Signature) 5/15 3:11pm

RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)

METHOD OF PAYMENT SHIPPED BY: (Signature) COURIER (Signature) RECEIVED FOR MES BY: (Signature) DATE 5/15 TIME 1511

8

Sample Remainder Disposal

☐ Return Sample Remainder To Client Via

☑ Request Lab To Dispose Of All Sample Remainders

(Signature) (Date) 5-14-08

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

EPAHO108000830

Delta 2751

2751

EPAHO108000831

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/21/2008**

Dear **Siva Sambasivan**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2751

Expiration Date 4/21/2010

Generator: Delta Chemical -Sheldon
Address: 10521 Sheldon Rd
Houston, TX 77044

Waste Information

Name of Waste: Oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
oily run-off from oil packaging
Color: clear water layer/brow **Odor:** .85-1 **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Delta Chemical Services
Address: 10521 Sheldon Rd
City, State, Zip: Houston, TX 77041
Contact: Siva Sambasivan **Title:** EH&S
Phone No: 281-923-2132 (cell) **Fax No:**
24/hr Phone: 281-923-2132 (cell)
U.S. EPA I.D. No: TXD000835157
State I.D. 32072 **SIC Code:** 5169

SECTION 2: Billing Information – ☒ Same as Above

Company:
Address:
City, State, Zip:
Contact: **Title:**
Phone No: **Fax No:**

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste: Oily Run-off from oil packaging

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear water layer/ Brown Oil **Odor:** hydrocarbon

Specific Gravity (water=1): .85-1 **Density:** 7.5-8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 5000 gal ____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material
Class: na **UN/NA:** na **PG:** na **RQ:** ns

EPAHO108000833

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ 180	neutral	0 mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	5-40	%
Water	55-95	%
dirt/debris	0-2%	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 04/21/2008

Printed Name/Title: SIVA SAMBASIVAM / SITE MANAGER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 (Approved) Rejected

Approval Number: 2751

EPAHO108000834

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000835

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000836

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$0.10 / gal trans tfs c

2. **Contamination Limits (maximum limit before surcharges apply):**

~~Standard per rate sheet on~~
TOC, phenol, solids

3. **Surcharge Pricing:**

Standard surcharges per rated sheet on shared drive

4. **Special Testing Requirements:**

On the decant water phase test for pH, TOC, phenol, metals & % solids

5. **Treatment and Handling Protocol:**

If received material is an emulsion then the material must go to the oil heat treatment. Need to decant Oil & water phase.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

EPAHO108000838

Williams Brothers 2752
2752

EPAHO108000839

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2752

Expiration Date 4/21/2010

Generator: Williams Brothers
Address: 5629 Hillside
Houston, TX 77039

Waste Information

Name of Waste: recycled material
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
recycled pillows/rags
Color: dark **Odor:** na **pH:** na
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

generator not in the System
Attn: Dan

DR
OK

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	WILLIAMS BROTHERS		
Address:	5629 HILLSIDE		
City, State, Zip:	HOUSTON, TX 77039		
Contact:	ZAC MCKAUGHAN	Title:	
Phone No:		Fax No:	
24/hr Phone:	281-541-4829		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	CKG SERVICES, LLC		
Address:	10707 HONEA EGYPT RD.		
City, State, Zip:	MONTGOMERY, TX 77316		
Contact:	ZAC MCKAUGHAN	Title:	PRESIDENT
Phone No:	281-541-4829	Fax No:	936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: RECYCLED MATERIAL
Detailed Description of Process Generating Waste: RECYCLED PILLOWS/RAGS

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: DARK Odor: ____

Specific Gravity (water=1): ND Density: ND lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55G	____	____	____

Frequency:	☐ Weekly	☐ Monthly	☐ Quarterly	☒ Yearly

Number of Units (containers): 10 Other: ____
Texas State Waste Code No: ~~CESQG~~ Recycle
Proper U.S. DOT Shipping Name: ~~NON HAZNON DOT~~ Recyclable used oil Sorbent
Class: ____ UN/NA: Pads Absorbent PG: ____ RQ: ____

EPAHO108000841

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	NA% 100

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	**Ranges are acceptable**	**or %**
RECYCLED RAGS/PILLOWS OILY	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS va

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: 0
TCLP Volatiles: 0
TCLP Semi-Volatiles: 0
Reactivity: 0
Corrosivity: 0
Ignitability: 0

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above a attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or will omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materi tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 04-17-08

Printed Name/Title: ZAC MCKAUGHAN/PRESIDENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-21-08 Approved Rejected

Approval Number: _____

EPAHO108000842

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000843

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000844

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35/dm

2. **Contamination Limits (maximum limit before surcharges apply):**

Free Liquids

3. **Surcharge Pricing:**

$10/dm for free liquids

4. **Special Testing Requirements:**

None

5. **Treatment and Handling Protocol:**

Recycle to Geocycle

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000845

7. **Tests for Product Recovered/Recycled (if applicable):**

Na

8. **Management for Product Recovered/Recycled (if applicable):**

Na

Southern
2753

2753

EPAHQ108000847

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2008**

Dear **David Fisher**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2753

Expiration Date 4/23/2010

Generator: Socotherm LaBarge, LLC
Address: 817 Shields
Channelview, TX 77530

Waste Information

Name of Waste: Non-RCRA, Non-Hazardous wastewater
TCEQ Waste Code #: FJT81192
Container Type:
Detailed Description of Process Generating Waste:
Wastewater generated from phosphating carbon steel pipe prior to coating process
Color: Varies **Odor:** None **pH:** >2<12.5
Physical State:
Incompatibilities: None
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

YP OK

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Socotherm LaBarge, Inc.		
Address:	817 Shield		
City, State, Zip:	Channelview, TX 77530		
Contact:	Zephia Riess	**Title:**	HSE Manager
Phone No:	713-378-7202	**Fax No:**	713-378-7299
24/hr Phone:	832-519-7365		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non-RCRA, Non-Hazardous Waste Water
Detailed Description of Process Generating Waste: Waste water generated from phosphating carbon steel pipe proir to a coating process.

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.4 **Density:** 8-9 lbs/gal

Does this material contain any total phenolic compounds? ☒ **Yes** ☒ **No** Nonyl Phenol - None detected in Sample

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 5-6000 ____

Frequency: ☒ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: FJT81192
Proper U.S. DOT Shipping Name: Non-RCRA, NON-DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

EPAHO108000849

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	>2<12.5	0mg/l	0mg/l	0-10%

Oil&Grease	TOC	Zinc	Copper	Nickel
<100mg/l	<10000mg/l	Testmg/l	Testmg/l	Testmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oakite 33	5-8	%
Water	85-96	%
Carbon Steel Fines	0-10	%
Oakite NC Rinse	1-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Zephia L. Riess **Date:** 04/24/08

Printed Name/Title: Zephia L. Riess

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thayer

Date: 4-24-08 Approved Rejected

Approval Number: 2753

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☒ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000851

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☒ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000852

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

10¢/gal
$300/load current FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

<15 PPM Phenol
<4% Solids
< 5000 TOC

3. **Surcharge Pricing:**

1/2 cent per % over 4% on Solids
4 cents per 50 PPM Phenol ≥15 PPM
TOC is 2 cents per 5000 ≥ 5000

4. **Special Testing Requirements:**

- TOC
- Total Phenolics
- Total Solids
- metals

pH

5. **Treatment and Handling Protocol:**

Waste water treatment; press required for high solids

6. **Treated Wastewater Discharge Subcategory:**

☒ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

N/A

8. **Management for Product Recovered/Recycled (if applicable);**

N/A

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Robinson Water Well -

Sample Date: 01/31/2008

Report #120834 | Report Generated 02/28/2008 16:01

Site: 101250 1000

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Sodium mg/L	pH S.U.	Alkalinity mg/L	Aluminum mg/L	Arsenic mg/L	Barium mg/L	CL2 mg/L	Cadmium mg/L	Calcium mg/L	Chromium mg/L	Copper mg/L	Fluoride mg/L
01/31 12:20	JK	01/31 16:22	85	6.94	210	<0.020	<0.010	0.10	0.02	<[illegible].001	16.80	<0.010	0.084	0.347

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Iron mg/L	Lead mg/L	Manganese mg/L	Mercury mg/L	NO3-N mg/L	Nickel mg/L	Silver mg/L	TDS mg/L	Zinc mg/L	Beryllium mg/L	Chloride mg/L	Conductivity umhos
01/31 12:20	JK	01/31 16:22	0.035	<0.005	0.071	0.0003	<0.10	<0.010	0.003	[illegible]59	1.800	<0.005	26.9	234.0

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Hardness mg/L CaCO3	Magnesium mg/L	Nitrite mg/L	Selenium mg/L	Sulfate mg/L
01/31 12:20	JK	01/31 16:22	57.60	3.920	<0.100	<0.010	7.4

All analysis started within the time frame specified in "Standard Methods for the Examination of Water and Wastes", 20th Edition, 1998, or EPA "Methods for Chemical Analysis of Water and Wastes". Analysis date and time of analysis is shown below result. Methods stated below come from "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998, or EPA Methodology.
ALS:EPA 200.7 RL .002 AL:EPA 200.7 RL .02 ALK:EPA 310.1 RL 10 AS:EPA 200.7 RL .01 BA:EPA 200.7 RL .01 BE:EPA 200.7 RL .005 CA:EPA 200.7 RL 1 CD:EPA 200.7 RL .001 CL-IC:EPA 300.0 RL 1 CL2:EPA 330.5 RL .01 CR:EPA 200.7 RL .01 CU:EPA 200.7 RL .01 Cond.:EPA 120.1 RL 1 F:EPA 300.0 RL .1 FE:EPA 200.7 RL .03 HG:EPA 245.1 RL .0002 Hard:SM 2340B RL 1 MN:EPA 200.7 RL .015 MG:EPA 200.7 RL 1 NI:EPA 200.7 RL .01 NO2-N:EPA 300.0 RL .1 NO3-N:EPA 300.0 RL .1 NA:EPA 200.7 RL 1 PB:EPA 200.7 RL .005 PH Lab:EPA 150.1 RL 1 SO4:EPA 300.0 RL 1 SE:EPA 200.7 RL .015 TDS:EPA 160.1 RL 10 ZN:EPA 200.7 RL .005

NWDLS North Water District Laboratory Services, Inc.
8725 Dawn Trail - The Woodlands, TX 77381
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

QA Test Report

Robinson Water Well -

Sample Date: 01/31/2008

Report #120303 | Report Generated 02/29/2008 16:01

Site: 101250 1000 | Page 1 of 1

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Duplicate Sodium mg/L	Spike Sodium mg/L	Standard Sodium mg/L	Blank Sodium mg/L	Duplicate Alkalinity mg/L	Blank Alkalinity mg/L	Duplicate Aluminum mg/L	Spike Aluminum mg/L	Standard Aluminum mg/L	Blank Aluminum mg/L	Duplicate Arsenic mg/L	Spike Arsenic mg/L
01/31 12:20	JK	01/31 16:22	5/7	244/250	251/250	<1	122/120	<10	1.750/1.740	[illegible]	<0.020	<0.010/<0.010	0.498/0.500

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Arsenic mg/L	Blank Arsenic mg/L	Duplicate Barium mg/L	Spike Barium mg/L	Standard Barium mg/L	Blank Barium mg/L	Duplicate Cadmium mg/L	Spike Cadmium mg/L	Standard Cadmium mg/L	Blank Cadmium mg/L	Duplicate Calcium mg/L	Spike Calcium mg/L
01/31 12:20	JK	01/31 16:22	0.5[illegible]/0.500	<0.010	0.08/0.08	9.98/10.00	10.10/10.00	<0.01	0.001/0.001	0.244/0.250	0.250/0.250	<0.001	17.90/18.00	254.00/250.00

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Calcium mg/L	Blank Calcium mg/L	Duplicate Chromium mg/L	Spike Chromium mg/L	Standard Chromium mg/L	Blank Chromium mg/L	Duplicate Copper mg/L	Spike Copper mg/L	Standard Copper mg/L	Blank Copper mg/L	Duplicate Fluoride mg/L	Spike Fluoride mg/L
01/31 12:20	JK	01/31 16:22	248.00/250.00	<1.00	0.010/0.010	0.498/0.500	0.510/0.500	<0.010	0.065/0.065	1.270/1.[illegible]	1.250/1.250	<0.010	0.347/0.347	2.250/2.500

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Fluoride mg/L	Blank Fluoride mg/L	Duplicate Iron mg/L	Spike Iron mg/L	Standard Iron mg/L	Blank Iron mg/L	Duplicate Lead mg/L	Spike Lead mg/L	Standard Lead mg/L	Blank Lead mg/L	Duplicate Manganese mg/L	Spike Manganese mg/L
01/31 12:20	JK	01/31 16:22	4.510/5.000	<0.100	4.230/4.430	4.510/5.000	5.050/5.000	<0.030	0.023/0.022	0.250/0.[illegible]	0.264/0.250	<0.005	0.018/0.005	0.760/0.750

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Manganese mg/L	Blank Manganese mg/L	Duplicate Mercury mg/L	Spike Mercury mg/L	Standard Mercury mg/L	Blank Mercury mg/L	Duplicate NO3-N mg/L	Spike NO3-N mg/L	Standard NO3-N mg/L	Blank NO3-N mg/L	Duplicate Nickel mg/L	Spike Nickel mg/L
01/31 12:20	JK	01/31 16:22	0.7[illegible]/0.750	<0.015	<0.0003/<0.0003	0.0055/0.0[illegible]	0.005/0.0050	<0.0002	<0.10/<0.10	10.10/12.[illegible]	22.10/23.00	<0.10	<0.010/<0.010	2.010/2.000

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Nickel mg/L	Blank Nickel mg/L	Duplicate Silver mg/L	Spike Silver mg/L	Standard Silver mg/L	Blank Silver mg/L	Duplicate TDS mg/L	Spike TDS mg/L	Duplicate Zinc mg/L	Spike Zinc mg/L	Standard Zinc mg/L	Blank Zinc mg/L
01/31 12:20	JK	01/31 16:22	2.1[illegible]/2.000	<0.010	<0.002/<0.002	0.450/0.500	0.493/0.500	<0.002	581/601	<[illegible]	0.749/0.744	1.020/1.000	1.020/1.000	<0.005

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Duplicate Beryllium mg/L	Spike Beryllium mg/L	Standard Beryllium mg/L	Blank Beryllium mg/L	Duplicate Chloride mg/L	Spike Chloride mg/L	Standard Chloride mg/L	Blank Chloride mg/L	Duplicate Conductivity umhos	Standard Conductivity umhos	Blank Conductivity umhos	Duplicate Magnesium mg/L
01/31 12:20	JK	01/31 16:22	<0.0[illegible]/<0.005	0.245/0.250	0.261/0.250	<0.005	27.0/26.0	45.1/50.0	92.0/100.0	<1	231.0/234.0	1430.0/1413.0	<0.1	1.280/1.280

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Spike Magnesium mg/L	Standard Magnesium mg/L	Blank Magnesium mg/L	Duplicate Nitrite mg/L	Spike Nitrite mg/L	Standard Nitrite mg/L	Blank Nitrite mg/L	Duplicate Selenium mg/L	Spike Selenium mg/L	Standard Selenium mg/L	Blank Selenium mg/L	Duplicate Sulfate mg/L
01/31 12:20	JK	01/31 16:22	[illegible]	[illegible]	<1.000	<0.100/<0.100	2.380/2.500	4.[illegible]/5.000	<0.100	<0.010/<0.0[illegible]	0.248/0.250	0.254/0.250	<0.010	7.417.4

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Spike Sulfate mg/L	Standard Sulfate mg/L	Blank Sulfate mg/L
01/31 12:20	JK	01/31 16:22	42.1/50.0	89.0/100.0	<1.0

Analysis	Reporting Limit
AG (EPA 200.7)	.002 mg/L
AS (EPA 200.7)	.01 mg/L
CA (EPA 200.7)	1 mg/L
CL2 (EPA 330.5)	.01 mg/L
Cond. (EPA 120.1)	.1 umhos
HG (EPA 245.7)	.0002 mg/L
Mg (EPA 200.7)	1 mg/L
NO3-N (EPA 300.0)	.1 mg/L
PH Lab (EPA 150.1)	1 S.U.
TDS (EPA 160.1)	10 mg/L

Analysis	Reporting Limit
Al. (EPA 200.7)	.02 mg/L
BA (EPA 200.7)	.01 mg/L
CD (EPA 200.7)	.001 mg/L
CR (EPA 200.7)	.01 mg/L
F (EPA 300.0)	.1 mg/L
Hard (SM 2340B)	1 mg/(CaCO3)/L
NI (EPA 200.7)	.01 mg/L
NA (EPA 200.7)	1 mg/L
SO4 (EPA 300.0)	1 mg/L
ZN (EPA 200.7)	.005 mg/L

Analysis	Reporting Limit
ALK (EPA 310.1)	10 mg/L
BR (EPA 200.7)	.005 mg/L
CL-IC (EPA 300.0	1 mg/L
CU (EPA 200.7)	.01 mg/L
FE (EPA 200.7)	.03 mg/L
MN (EPA 200.7)	.015 mg/L
NO2-N (EPA 300.	.1 mg/L
PB (EPA 200.7)	.005 mg/L
Se (EPA 200.7)	.01 mg/L

All analysis started within the time frame specified in "Standard Methods for the Examination of Water and Wastes", 20th Edition, 1998, or EPA "Methods fo Chemical Analysis of Water and Wastes". Analyst, date and time of analysis is shown below result. QA/QC is for the group of lab samples.

Methods used below come from "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998, or EPA Methodology.

Methods: AG:EPA 200.7 AL:EPA 200.7 ALK:EPA 310.1 AS:EPA 200.7 BA:EPA 200.7 BE:EPA 200.7 CA:EPA 200.7 CD:EPA 200.7 CL-IC:EPA 300.0 CL2:EPA 330.5 CR:EPA 200. [illegible] Cond.:EPA 120.1 F:EPA 300.0 FE:EPA 200.7 HG:EPA 245.1 Hard:SM 2340B MN:EPA 200.7 MG:EPA 200.7 NI:EPA 200.7 NO2-N:EPA 300.0 NO3-N:EPA 300.0 NA:EPA 200.7 PB:EPA 200.7 PH Lab:EPA 150.1 SO4:EPA 300. SE:EPA 200.7 TDS:EPA 160.1 ZN:EPA 200.7

Chain ID: 11607

CSN-56550 Page 1 of 1

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

1000 - Robinson Water Well

Site: 1000
Robinson Water Well

Customer: WALK N 101250

Contact: Voice Cell Fax

#	Sample ID	Collection Point	Date	Time	Type	Size	Type	Content	Preservative	Hold	Requested Analysis & Remarks	Field Analysis Time	
1	1019-5919	WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid	4°C	48H	NO3-N/NO2-N/Cl-IC/F/Cond/ALK/PH Lab/SO4	WP #1 Chlorine Residual	0.02
2	1019-5920	WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid	HNO3	28D	AS/BA/CA/CD/CR/CU/FE/HG/Be/AL/AG/ZN/PB/K/Mg/MN/Se/Na/Hard		
3	1019-5921	WP #1	01/31/08	12:20	GRAB	250mL	Glass	Liquid	4°C	7D	TDS	Collected By (if different than sampler)	
4	1019-5922	WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid			CL2		
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Jason Kaskin				
Print Name	Relinquished By (Signature)		Received By (Signature)	
Affiliation	Relinquished To Laboratory By (Signature)	Date / Time	Received For Laboratory By (Signature)	Date / Time
NWDLS	Jason Kaskin	1-31-08 16:32	Allen Ricks	1-31-08 16:32

pH Meter Calibration

Time	Slope	Buffers
		4 7 10

DO Meter 100% Air Calibration

Time	Temp °C	D.O.

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(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Robinson Water Well -

Sample Date: 01/31/2008

Report #128554

Site: 101250 1000

Report Generated 02/28/2008 16:01

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Sodium mg/L	pH S.U.	Alkalinity mg/L	Aluminum mg/L	Arsenic mg/L	Barium mg/L	CL2 mg/L	Cadmium mg/L	Calcium mg/L	Chromium mg/L	Copper mg/L	Fluoride mg/L
01/31 12:20	JK	01/31 16:22	85 02/07 10:03 JL	6.94 01/31 16:20 GS	210 02/10 11:00 GS	<0.020 02/07 09:00 JL	<0.010 02/07 09:00 JL	0.10 02/07 09:00 JL	0.02 01/31 12:20	<0.01 02/07 09:0	16.60 02/07 11:00 JL	<0.010 02/07 09:00 JL	0.084 02/07 09:00 JL	0.347 02/05 09:59 GS

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Iron mg/L	Lead mg/L	Manganese mg/L	Mercury mg/L	NO3-N mg/L	Nickel mg/L	Silver mg/L	Thallium mg/L	Zinc mg/L	Beryllium mg/L	Chloride mg/L	Conductivity umhos
01/31 12:20	JK	01/31 16:22	0.035 02/01 09:06 JL	<0.005 02/07 09:00 JL	0.071 02/07 09:00 JL	0.0003 02/12 12:00 JL	<0.10 02/05 09:56 GS	<0.010 02/07 09:00 JL	0.003 02/10 09:00 JL	2[illegible] 02/01 17:01 JL	1.800 02/07 09:00 JL	<0.005 02/07 09:00 JL	26.9 02/05 09:56 GS	234.0 01/31 16:46 GS

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Hardness mg(CaCO3)/L	Magnesium mg/L	Nitrite mg/L	Selenium mg/L	Sulfate mg/L
01/31 12:20	JK	01/31 16:22	57.60 02/07 12:00 MT	3.920 02/07 10:00 JL	<0.100 02/05 09:56 GS	<0.010 02/07 09:00 JL	7.4 02/05 09:56 GS

All analysis started within the time frame specified in "Standard Methods for the Examination of Water and Wastes", 20th Edition, 1998, or EPA "Methods for Chemical Analysis of Water and Wastes". Analyst, date and time of analysis is shown below result. Methods stated below come from "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998, or EPA Methodology.
AG:EPA 200.7 RL .002 AL:EPA 200.7 RL .02 ALK:EPA 310.1 RL 10 AS:EPA 200.7 RL .01 BA:EPA 200.7 RL .01 Be:EPA 200.7 RL .005 CA:EPA 200.7 RL 1 CD:EPA 200.7 RL .001 CL-IC:EPA 300.0 RL 1 CL2:EPA 330.5 RL .01 CR:EPA 200.7 RL .01 CU:EPA 200.7 RL .01 Cond.:EPA 120.1 RL .1 F:EPA 300.0 RL .1 FE:EPA 200.7 RL .03 HG:EPA 245.1 RL .0002 Hard:SM 2340B RL 1 MN:EPA 200.7 RL .015 Mg:EPA 200.7 RL 1 NI:EPA 200.7 RL .01 NO2-N:EPA 300.0 RL .1 NO3-N:EPA 300.0 RL .1 Na:EPA 200.7 RL 1 PB:EPA 200.7 RL .005 PH Lab:EPA 150.1 RL 1 SO4:EPA 300.0 RL 1 Se:EPA 200.7 RL .01 TDS:EPA 160.1 RL 10 ZN:EPA 200.7 RL .005

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

QA Test Report

Robinson Water Well -

Sample Date: 01/31/2008

Report #128555 — Report Generated *02/28/2008 16:01*

Site: 101250 1000 —

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Duplicate Sodium mg/L	Spike Sodium mg/L	Standard Sodium mg/L	Blank Sodium mg/L	Duplicate Alkalinity mg/L	Blank Alkalinity mg/L	Duplicate Aluminum mg/L	Spike Aluminum mg/L	Standard Aluminum mg/L	Blank Aluminum mg/L	Duplicate Arsenic mg/L	Spike Arsenic mg/L
01/31 12:20	JK	01/31 16:22	5/7 02/07 10:00 JL	244/250 02/07 10:00 JL	251/250 02/07 10:00 JL	<1 02/07 10:00 JL	122/120 02/19 15:00 GS	<10 02/19 15:00 GS	1,750/1,740 02/07 09:00 JL	9,760/10,0[illegible] 02/07 09:0[illegible]	9,960/10,000 02/07 09:00 JL	<0.020 02/07 09:00 JL	<0.010/<0.010 02/07 09:00 JL	0.496/0.500 02/07 09:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Arsenic mg/L	Blank Arsenic mg/L	Duplicate Barium mg/L	Spike Barium mg/L	Standard Barium mg/L	Blank Barium mg/L	Duplicate Cadmium mg/L	Spike Cadmium mg/L	Standard Cadmium mg/L	Blank Cadmium mg/L	Duplicate Calcium mg/L	Spike Calcium mg/L
01/31 12:20	JK	01/31 16:22	0.509/0.500 02/07 09:00 JL	<0.010 02/07 09:00 JL	0.08/0.08 02/07 09:00 JL	9.58/10.00 02/07 09:00 JL	10.10/10.00 02/07 09:00 JL	<0.01 02/07 09:00 JL	0.001/0.001 02/07 09:00 JL	0.244/0.2[illegible] 02/07 09:0[illegible]	0.250/0.250 02/07 09:00 JL	<0.001 02/07 09:00 JL	17.90/18.80 02/07 11:00 JL	254.00/250.00 02/07 11:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Calcium mg/L	Blank Calcium mg/L	Duplicate Chromium mg/L	Spike Chromium mg/L	Standard Chromium mg/L	Blank Chromium mg/L	Duplicate Copper mg/L	Spike Copper mg/L	Standard Copper mg/L	Blank Copper mg/L	Duplicate Fluoride mg/L	Spike Fluoride mg/L
01/31 12:20	JK	01/31 16:22	249.00/250.00 02/07 11:00 JL	<1.00 02/07 11:00 JL	0.010/0.010 02/07 09:00 JL	0.496/0.500 02/07 09:00 JL	0.510/0.500 02/07 09:00 JL	<0.010 02/07 09:00 JL	0.065/0.065 02/07 09:00 JL	1.270/1.2[illegible] 02/07 09:00 [illegible]	1.260/1.250 02/07 09:00 JL	<0.010 02/07 09:00 JL	0.342/0.347 02/05 09:56 GS	2.260/2.500 02/05 09:56 GS

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Fluoride mg/L	Blank Fluoride mg/L	Duplicate Iron mg/L	Spike Iron mg/L	Standard Iron mg/L	Blank Iron mg/L	Duplicate Lead mg/L	Spike Lead mg/L	Standard Lead mg/L	Blank Lead mg/L	Duplicate Manganese mg/L	Spike Manganese mg/L
01/31 12:20	JK	01/31 16:22	4.800/5.000 02/05 09:56 GS	<0.100 02/05 09:56 GS	4.230/4.430 02/07 09:00 JL	4.510/5.000 02/07 09:00 JL	5.060/5.000 02/07 09:00 JL	<0.030 02/07 09:00 JL	0.023/0.022 02/07 09:00 JL	0.256/0.2[illegible] 02/07 09:00 [illegible]	0.264/0.250 02/07 09:00 JL	<0.005 02/07 09:00 JL	0.099/0.098 02/07 09:00 JL	0.760/0.750 02/07 09:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Manganese mg/L	Blank Manganese mg/L	Duplicate Mercury mg/L	Spike Mercury mg/L	Standard Mercury mg/L	Blank Mercury mg/L	Duplicate NO3-N mg/L	Spike NO3-N mg/L	Standard NO3-N mg/L	Blank NO3-N mg/L	Duplicate Nickel mg/L	Spike Nickel mg/L
01/31 12:20	JK	01/31 16:22	0.766/0.750 02/07 09:00 JL	<0.015 02/07 09:00 JL	<0.0002/<0.0002 02/12 12:00 JL	0.0058/0.0050 02/12 12:00 JL	0.0066/0.0050 02/12 12:00 JL	<0.0002 02/12 12:00 JL	<0.10/<0.10 02/05 09:56 GS	10.10/12.5 02/05 09:56 G	22.10/25.00 02/05 09:56 GS	<0.10 02/05 09:56 GS	<0.010/<0.010 02/07 09:00 JL	2.040/2.000 02/07 09:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Standard Nickel mg/L	Blank Nickel mg/L	Duplicate Silver mg/L	Spike Silver mg/L	Standard Silver mg/L	Blank Silver mg/L	Duplicate TDS mg/L	Blank TDS mg/L	Duplicate Zinc mg/L	Spike Zinc mg/L	Standard Zinc mg/L	Blank Zinc mg/L
01/31 12:20	JK	01/31 16:22	2.100/2.000 02/07 09:00 JL	<0.010 02/07 09:00 JL	<0.002/<0.002 02/10 09:00 JL	0.480/0.500 02/10 09:00 JL	0.493/0.500 02/10 09:00 JL	<0.002 02/10 09:00 JL	581/601 02/01 17:01 ER	<1 02/01 17:01 E	0.749/0.744 02/07 09:00 JL	1.020/1.000 02/07 09:00 JL	1.020/1.000 02/07 09:00 JL	<0.005 02/07 09:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Duplicate Beryllium mg/L	Spike Beryllium mg/L	Standard Beryllium mg/L	Blank Beryllium mg/L	Duplicate Chloride mg/L	Spike Chloride mg/L	Standard Chloride mg/L	Blank Chloride mg/L	Duplicate Conductivity umhos	Standard Conductivity umhos	Blank Conductivity umhos	Duplicate Magnesium mg/L
01/31 12:20	JK	01/31 16:22	<0.005/<0.005 02/07 09:00 JL	0.257/0.250 02/07 09:00 JL	0.261/0.250 02/07 09:00 JL	<0.005 02/07 09:00 JL	27.0/25.9 02/05 09:56 GS	45.1/50.0 02/05 09:56 GS	92.0/100.0 02/05 09:56 GS	<1.0 02/05 09:56 G	231.0/234.0 01/31 18:40 GS	1430.0/1413.0 01/31 18:40 GS	<0.1 01/31 18:40 GS	1.280/1.280 02/07 10:00 JL

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Spike Magnesium mg/L	Standard Magnesium mg/L	Blank Magnesium mg/L	Duplicate Nitrite mg/L	Spike Nitrite mg/L	Standard Nitrite mg/L	Blank Nitrite mg/L	Duplicate Selenium mg/L	Spike Selenium mg/L	Standard Selenium mg/L	Blank Selenium mg/L	Duplicate Sulfate mg/L
01/31 12:20	JK	01/31 16:22	256.000/250.000 02/07 10:00 JL	267.000/250.000 02/07 10:00 JL	<1.000 02/07 10:00 JL	<0.100/<0.100 02/05 09:56 GS	2.300/2.500 02/05 09:56 GS	4.600/5.000 02/05 09:56 GS	<0.100 02/05 09:56 GS	<0.010/<0.010 02/07 09:00 JL	0.248/0.250 02/07 09:00 JL	0.254/0.250 02/07 09:00 JL	<0.010 02/07 09:00 JL	7.4/7.4 02/05 09:56 GS

WP #1 Collection Point - Grab

Sample Time	C	Received Lab	Spike Sulfate mg/L	Standard Sulfate mg/L	Blank Sulfate mg/L
01/31 12:20	JK	01/31 16:22	42.1/50.0 02/05 09:56 GS	69.0/100.0 02/05 09:56 GS	<1.0 02/05 09:56 GS

Analysis	Reporting Limit
AG (EPA 200.7)	.002 mg/L
AS (EPA 200.7)	.01 mg/L
CA (EPA 200.7)	1 mg/L
CL2 (EPA 330.5)	.01 mg/L
Cond. (EPA 120.1)	.1 umhos
HG (EPA 245.1)	.0002 mg/L
Mg (EPA 200.7)	1 mg/L
NO3-N (EPA 300.0)	.1 mg/L
PH Lab (EPA 150.1)	1 S.U.
TDS (EPA 160.1)	10 mg/L

Analysis	Reporting Limit
AL (EPA 200.7)	.02 mg/L
BA (EPA 200.7)	.01 mg/L
CD (EPA 200.7)	.001 mg/L
CR (EPA 200.7)	.01 mg/L
F (EPA 300.0)	.1 mg/L
Hard (SM 2340B)	1 mg(CaCO3)/L
NI (EPA 200.7)	.01 mg/L
Na (EPA 200.7)	1 mg/L
SO4 (EPA 300.0)	1 mg/L
ZN (EPA 200.7)	.005 mg/L

Analysis	Reporting Limit
ALK (EPA 310.1)	10 mg/L
Be (EPA 200.7)	.005 mg/L
CL-IC (EPA 300.0)	1 mg/L
CU (EPA 200.7)	.01 mg/L
FE (EPA 200.7)	.03 mg/L
MN (EPA 200.7)	.015 mg/L
NO2-N (EPA 300.0	.1 mg/L
PB (EPA 200.7)	.005 mg/L
Se (EPA 200.7)	.01 mg/L

All analysis started within the time frame specified in "Standard Methods for the Examination of Water and Wastes", 20th Edition, 1998. or EPA "Methods for Chemical Analysis of Water and Wastes".
Analyst, date and time of analysis is shown below result. QA/QC is for the group of ten samples.
Methods stated below come from "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998. or EPA Methodology.

Methods: AG:EPA 200.7 AL:EPA 200.7 ALK:EPA 310.1 AS:EPA 200.7 BA:EPA 200.7 Be:EPA 200.7 CA:EPA 200.7 CD:EPA 200.7 CL-IC:EPA 300.0 CL2:EPA 330.5 CR:EPA 200.7 CU:EPA 200.7 Cond:EPA 120.1 F:EPA 300.0 FE:EPA 200.7 HG:EPA 245.1 Hard:SM 2340B MN:EPA 200.7 Mg:EPA 200.7 NI:EPA 200.7 NO2-N:EPA 300.0 NO3-N:EPA 300.0 Na:EPA 200.7 PB:EPA 200.7 PH Lab:EPA 150.1 SO4:EPA 300.0 Se:EPA 200.7 TDS:EPA 160.1 ZN:EPA 200.7

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

1000 - Robinson Water Well

Site: 1000 Customer: WALK-IN 101250

Robinson Water Well

Contact: Voice Cell Fax

#	Sample ID	Customer ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1019-5919		WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid	4°C	48H	NO3-N/NO2-N/CL-IC/F/Cond./ALK/PH Lab/SO4 EPA 300.0 EPA 120.1 EPA 310.1 EPA 150.1
2	1019-5920		WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid	HNO3	28D	AS/BA/CA/CD/CR/CU/FE/HG/Be/AL/AG/ZN/PB/NI/Mg/MN/Se/Na/Hard EPA 200.7 SM 2340B EPA 245.1
3	1019-5921		WP #1	01/31/08	12:20	GRAB	250mL	Glass	Liquid	4°C	7D	TDS EPA 160.1
4	1019-5922		WP #1	01/31/08	12:20	GRAB	250mL	HDPE	Liquid			CL2 EPA 330.5
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Field Analysis Time	
WP #1 Chlorine Residual	0.02
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Jason Keeling				
Print Name	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Affiliation	Relinquished To Laboratory By (Signature)	Date / Time	Received For Laboratory By (Signature)	Date / Time
NWDLS	Jason Keeling	1-31-08 / 16:22	Allen Rios	1-31-08 / 16:22

pH Meter Calibration

Time	Slope	Buffers
		4 7 10

DO Meter 100% Air Calibration

Time	Temp °C	D.O.

OAKITE PRODUCTS INC -- OAKITE 33 ;CODE:0330 -- 8010-00-344-3642

========== Product Identification ==========

Product ID:OAKITE 33 ;CODE:0330
MSDS Date:01/02/1990
FSC:8010
NIIN:00-344-3642
MSDS Number: BDWWW
=== Responsible Party ===
Company Name:OAKITE PRODUCTS INC
Address:50 VALLEY ROAD
City:BERKELEY HEIGHTS
State:NJ
ZIP:07922-2712
Country:US
Info Phone Num:201-464-6900
Emergency Phone Num:201-464-6900 /800-424-9300(CHEMTREC
Preparer's Name:SCOTT M.SCOTT
CAGE:44389
=== Contractor Identification ===
Company Name:OAKITE PRODUCTS INC
Address:50 VALLEY ROAD
Box:City:BERKELEY HEIGHTS
State:NJ
ZIP:07922
Country:US
Phone:908-464-6900
CAGE:44389

========== Composition/Information on Ingredients ==========

Ingred Name:PHOSPHORIC ACID (SARA III)
CAS:7664-38-2
RTECS #:TB6300000
Fraction by Wt: 50-60%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3/3 STEL
ACGIH TLV:1 MG/M3/3 STEL; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:2-BUTOXYETHANOL
CAS:111-76-2
RTECS #:KJ8575000
Fraction by Wt: 15-25%
Other REC Limits:NONE SPECIFIED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 25 PPM; 9293

Ingred Name:NONYLPHENOL POLYETHOXATE
CAS:9016-45-9
RTECS #:MD0900000
Fraction by Wt: <5.0%
Other REC Limits:NONE SPECIFIED

Ingred Name:OTHER COMPONENTS (TYPE NOT SPECIFIED)
Fraction by Wt: BALANCE
Other REC Limits:NONE SPECIFIED

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Hazards Identification

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CAN CAUSE BURNS TO EXPOSED TISSUE. CHRONIC: IRRITATIONG TO UPPER RESPIRATORY TRACT.CHRONIC:LIVER OR KIDNEY DAMAGE.
Explanation of Carcinogenicity:DATA PER MSDS
Effects of Overexposure:EYE, SKIN & RESPIRATORY TRACT IRRITATION. MAY CAUSE COUGHING, WHEEZING AND OTHER DIFFICULTIES IN BREATHING.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid Measures

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. CALL A PHYSICIAN. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. CALL A PHYSICIAN. SKIN: WASH WITH PLENTY OF SOAP & WATER. REMOVE CONTAMINATED CLOTHING/SHOES. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE 2 GLASSES OF WATER TO DRINK. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. CALL A PHYSICIAN.

Fire Fighting Measures

Flash Point:NONE
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:MAY REACT W/ SOME METALS RESULTING IN EVOLUTION OF HYDROGEN GAS. AVOID EXPOS TO MISTS & SPLASHES.

Accidental Release Measures

Spill Release Procedures:DIKE AREA AND NEUTRALIZE. SCOOP UP OR VACUUM UP. RINSE RESIDUAL TRACES WITH WATER. PRACTICALLY NON-TOXIC TO AQUATIC LIFE.
Neutralizing Agent:SODA ASH

Handling and Storage

Handling and Storage Precautions:STORE IN A COOL, DRY AREA AWAY FROM YELLOW OR RED LABEL ITEMS. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. CORROSIVE TO MILD STEEL AND ALUMINUM.
Other Precautions:USE AS ADVISED

Exposure Controls/Personal Protection

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR DECISION LOGIC-PUBL ICATION NUMBER 87.108.
Ventilation:PROVIDE SUFFICIENT LOCAL EXHAUST VENTILATION TO CONTROL INHALATION EXPOSURES BELOW OSHA'S PEL.
Protective Gloves:NEOPRENE OR RUBBER
Eye Protection:SAFETY GOGGLES & FACE SHIELD
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

EPAHO108000862

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS OR MISTS. WASH HANDS AND FACE AFTER USE. KEEP CONTAINER CLOSED WHEN NOT IN USE.

========== Physical/Chemical Properties ==========

HCC:C1
Vapor Density:>1.0
Spec Gravity:1.345
pH:1.3
Evaporation Rate & Reference:<1.0(N-BUTYL ACETATE=1)
Solubility in Water:COMPLETE
Appearance and Odor:STRAW TO TAN LIQUID;AROMATIC ODOR
Percent Volatiles by Volume:<25.0

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
ALKALINE MATERIALS,CHLORINE RELEASING MATERIALS.
Stability Condition to Avoid:HIGH TEMPERATURES
Hazardous Decomposition Products:MAY EMIT FUMES OF OXIDES OF PHOSPHORUS, CARBON MONOXIDE, AND CARBON DIOXIDE

========== Disposal Considerations ==========

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. LANDFILEE SUITABLE AFTER PROPER NEUTRALIZATION.

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Oakite

3140

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: 3140
OAKITE ALUMINUM CLEANER 164
60-X-161

HMIS 2 0 1 J

SECTION I

TRADE NAME	OAKITE ALUMINUM CLEANER 164	EMERGENCY TELEPHONE NUMBER:
CHEMICAL NAME AND SYNONYMS	NA-Mixture	(800) 424-9300 (CHEMTREC)
MANUFACTURER'S NAME AND TELEPHONE NO.	OAKITE PRODUCTS INC. (908) 464-6900 (8am-5pm)	
ADDRESS	50 Valley Road Berkeley Heights NJ 07922	

SECTION II - HAZARDOUS INGREDIENTS

	CAS NO.	% BY WT	TLV	PEL	UNITS
Sodium carbonate	0000497198	25-35	NE	NE	
Trisodium phosphate	0010101890	20-30	NE	NE	
Tetrasodium pyrophosphate	0007722885	15-25	5	NE	mg/m^3
Sodium metasilicate	0006834920	10-20	NE	NE	
Sodium silicate	0001344098	<10	NE	NE	
Non-hazardous ingredients		Bal.			

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29 CFR 1910.1200).

All component of this material are on the US TSCA Inventory.

SECTION III - PHYSICAL DATA

BOILING POINT (F)	NA	SPECIFIC GRAVITY (H20=1)	
VAPOR PRESSURE (mm Hg)	NA	Bulk Density	8.8 lb/gal
VAPOR DENSITY (Air=1)	NA	PERCENT VOLATILE	
SOLUBILITY IN WATER	Appreciable	BY VOLUME(%) Excludes H20	NA
EVAPORATION RATE	NA	PH 5 oz/gal	12.3
APPEARANCE AND ODOR	White powder; mild oily odor.	Concentrate	NA

Oakite Products, Inc. warrants that the product or products described herein will conform with its published specifications. The products supplied by Oakite and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Oakite materials for their own particular purpose. Since buyer's conditions of use of products are beyond Oakite's control, Oakite does not warrant any recommendations and information for the use of such products. OAKITE DISCLAIMS ALL OTHER WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.

NA - Not Applicable NE - Not Established

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): NONE
FLAMMABLE LIMITS: LEL: NA UEL: NA

EXTINGUISHING MEDIA: Use media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: Wear Self-Contained Breathing Apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Section VII.(WHMIS)
See Section VI.(U.S.)

SECTION V - HEALTH HAZARD INFORMATION

ROUTE(S) OF ENTRY:	INHALATION:	SKIN:	INGESTION:
	X	X	X

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
SYMPTOMS/EFFECTS OF OVEREXPOSURE:
Inhalation of dust or mist may cause respiratory irritation. Skin irritation prolonged or repeated contact may cause burns. Eye contact is irritating and may cause permanent damage.

FIRST AID

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.

SKIN: Remove contaminated clothing and wash skin with plenty of water. I: irritation persists get medical attention. Wash clothing before reuse.

INGESTION: Contact local poison control center or physician IMMEDIATELY!

INHALATION: Move victim to fresh air and restore breathing if necessary. Stay with victim until emergency medical help arrives.

SECTION VI - REACTIVITY DATA

STABILITY: NORMALLY STABLE
INCOMPATIBLE MATERIALS: Strong acids.

NA - Not Applicable **NE - Not Established**

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphorous oxides. Carbon monoxide, Carbon dioxide.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES: Wear personal protective equipment (See Section VIII). Carefully clean up spilled material and place in dry containers for disposal. Avoid dust generation.

WASTE DISPOSAL METHOD: Dispose of in accordance with Local State and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: If TLV is exceeded, or for symptoms of overexposure, wear a NIOSH-approved dust/mist respirator.

EYEWEAR: Wear chemical safety goggles.

CLOTHING/GLOVES: Wear chemical-resistant gloves and clothing as needed to prevent skin contact.

VENTILATION: Local exhaust may be necessary for some handling/use conditions. Specific needs should be addressed by supervisory or health/safety personnel.

SECTION IX - SPECIAL PRECAUTIONS

Store in closed container in dry area. NOTE:IF DILUTING (OR DISSOLVING) ALWAYS ADD THIS PRODUCT TO WATER SLOWLY AND WITH CONSTANT STIRRING. This product does not contain any carcinogens (at 0.1% or greater) as defined by IARC, NTP, or OSHA.

APPROVAL	Michael Chang	Mgr. Health & Environmental Dept.	06/10/1992
	NAME	**TITLE**	**DATE**

NA - Not Applicable NE - Not Established

Delta Chem 2754

2754

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QL
8-4-09
T-35
LAB

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2754

Expiration Date 4/24/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: 1-Octene
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
unused off-spec product
Color: clear colorless **Odor:** gasoline **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Check w BO on treatment handling for PFI. Must be 1007

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: 1-Octene
Detailed Description of Process Generating Waste: Unused Off-spec product

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear, colorless **Odor:** gasoline

Specific Gravity (water=1): 0.88 **Density:** 7.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55-gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 0-40 **Other:** ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Flammable liquids, n.o.s. (1-Octene)
Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:** None

EPAHO108000870

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>200F~~ 70° F	neutral	0 mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
1-Octene	~~0-100%~~ 100	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Jim Mourad **Date:** 4-9-08

Printed Name/Title: Jim Mourad HSE Department

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Prabhu Dhanga

Date: 4-24-08 Approved Rejected

Approval Number: ~~2754~~ 2454

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65/drum + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No Solids, No Water

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

WATER, Solids, PH, , No Solids, No Water

5. **Treatment and Handling Protocol:**

Process ↓ light ends

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

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CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

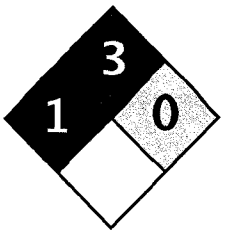
7. **Tests for Product Recovered/Recycled (if applicable):**

(1) Black oil
(2) CES Fuels

8. **Management for Product Recovered/Recycled (if applicable):**

If Black oil compatible, blend w/ Black oils
If not, check CES Fuels compatibility, and
blend w/ CES Fuels

ScienceLab.com
Chemicals & Laboratory Equipment



Health	2
Fire	3
Reactivity	0
Personal Protection	H

Material Safety Data Sheet
1-Octene MSDS

Section 1: Chemical Product and Company Identification

Product Name: 1-Octene

Catalog Codes: SLO1141

CAS#: 111-66-0

RTECS: Not available.

TSCA: TSCA 8(b) inventory: 1-Octene

CI#: Not available.

Synonym:

Chemical Name: 1-Octene

Chemical Formula: C8-H16

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
{1-}Octene	111-66-0	100

Toxicological Data on Ingredients: 1-Octene: ORAL (LD50): Acute: 5000 mg/kg [Rat]. 2000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8050 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

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Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 230°C (446°F)

Flash Points: CLOSED CUP: 21.12°C (70°F).

Flammable Limits: LOWER: 0.7% UPPER: 3.9%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid.
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid.
Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth,

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sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Wear suitable protective clothing If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Gasoline-like

Taste: Not available.

Molecular Weight: 112.21 g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 122.5°C (252.5°F)

Melting Point: -101°C (-149.8°F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: 36.2 mm of Hg (@ 20°C)

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Vapor Density: 3.87 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties:
Very slightly dispersed in methanol, n-octanol.
Is not dispersed in cold water.
See solubility in acetone.

Solubility:
Partially soluble in acetone.
Very slightly soluble in methanol, n-octanol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.
Acute oral toxicity (LD50): 2000 mg/kg [Rabbit].
Acute toxicity of the vapor (LC50): 8050 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

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Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 3: Combustible liquid with a flash point greater than 37.8C (100F).

Identification: : Flammable liquids n.o.s. (1-Octene) : UN1993 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: 1-Octene
Florida: 1-Octene
Massachusetts RTK: 1-Octene
TSCA 8(b) inventory: 1-Octene
TSCA 12(b) one time export: 1-Octene
TSCA 12(b) annual export notification: 1-Octene

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

DSCL (EEC): R11- Highly flammable.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 1

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Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves.
Lab coat.
Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 11:04 AM

Last Updated: 10/10/2005 11:04 AM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

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1-OCTENE

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CAUTIONARY RESPONSE INFORMATION

Common Synonyms	Liquid	Colorless	Gasoline-like odor
Caprylene alpha-Octylene	Floats on water. Flammable, harmful vapor is produced.		

Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Avoid contact with liquid and vapor.
Notify local health and pollution control agencies.
Protect water intakes.

Fire	FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemical, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.
Exposure	CALL FOR MEDICAL AID. VAPOR If inhaled, will cause dizziness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Irritating to skin and eyes. If swallowed, will cause nausea or vomiting. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING.
Water Pollution	Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge
Contain
Collection Systems: Skim
Chemical and Physical Treatment: Burn
Clean shore line
Salvage waterfowl

2. CHEMICAL DESIGNATIONS

2.1 CG Compatibility Group: 30; Olefin
2.2 Formula: $CH_2(CH_2)_5CH{=}CH_2$
2.3 IMO/UN Designation: Not listed
2.4 DOT ID No.: Not listed
2.5 CAS Registry No.: 111-66-0
2.6 NAERG Guide No.: Not listed
2.7 Standard Industrial Trade Classification: 51119

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Organic vapor canister; goggles or face shield.
3.2 Symptoms Following Exposure: Generally low toxicity. Mildly anesthetic at high vapor concentrations. May irritate eyes.
3.3 Treatment of Exposure: INHALATION: remove from exposure; support respiration. INGESTION: do NOT induce vomiting.
3.4 TLV-TWA: Not listed.
3.5 TLV-STEL: Not listed.
3.6 TLV-Ceiling: Not listed.
3.7 Toxicity by Ingestion: Currently not available
3.8 Toxicity by Inhalation: Currently not available.
3.9 Chronic Toxicity: Currently not available
3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present at high concentrations. The effect is temporary.
3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.
3.12 Odor Threshold: Currently not available
3.13 IDLH Value: Not listed.
3.14 OSHA PEL-TWA: Not listed.
3.15 OSHA PEL-STEL: Not listed.
3.16 OSHA PEL-Ceiling: Not listed.
3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

4.1 Flash Point: 70°F O.C.
4.2 Flammable Limits in Air: 0.9% (LEL)
4.3 Fire Extinguishing Agents: Dry chemical, foam, or carbon dioxide
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective
4.5 Special Hazards of Combustion Products: Not pertinent
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: 493°F
4.8 Electrical Hazards: Not pertinent
4.9 Burning Rate: 6.5 mm/min.
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichometric Air to Fuel Ratio: 57.1 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 16.0 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

6.1 Aquatic Toxicity: Currently not available
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): 0.9% (theor.), 1 day
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile:
Bioaccumulation: 0
Damage to living resources: 3
Human Oral hazard: 0
Human Contact hazard: I
Reduction of amenities: X

7. SHIPPING INFORMATION

7.1 Grades of Purity: Research: 99.7%; pure: 99.3%; technical: 95%
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Open (flame arrester) or pressure-vacuum
7.5 IMO Pollution Category: B
7.6 Ship Type: 3
7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Not listed
8.2 49 CFR Class: Not pertinent
8.3 49 CFR Package Group: Not listed.
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification:

Category	Classification
Health Hazard (Blue).....	1
Flammability (Red).....	3
Instability (Yellow).....	0

8.6 EPA Reportable Quantity: Not listed.
8.7 EPA Pollution Category: Not listed.
8.8 RCRA Waste Number: Not listed
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 112.22
9.3 Boiling Point at 1 atm: 250.3°F = 121.3°C = 394.5°K
9.4 Freezing Point: −151°F = −102°C = 172°K
9.5 Critical Temperature: 560.1°F = 293.4°C = 566.6°K
9.6 Critical Pressure: 400 psia = 27.2 atm = 2.76 MN/m^2
9.7 Specific Gravity: 0.715 at 20°C (liquid)
9.8 Liquid Surface Tension: 21.76 dynes/cm = 0.02176 N/m at 20°C
9.9 Liquid Water Interfacial Tension: (est.) 50 dynes/cm = 0.05 N/m at 20°C
9.10 Vapor (Gas) Specific Gravity: Not pertinent
9.11 Ratio of Specific Heats of Vapor (Gas): 1.050
9.12 Latent Heat of Vaporization: 129 Btu/lb = 71.9 cal/g = 3.01 X 10^5 J/kg
9.13 Heat of Combustion: −19,170 Btu/lb = −10,650 cal/g = −445.89 X 10^5 J/kg
9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution: Not pertinent
9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not available

NOTES

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1-OCTENE

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
40	45.470	0	0.483	0	1.153	40	0.567
50	45.180	10	0.487	5	1.143	50	0.530
60	44.890	20	0.491	10	1.133	60	0.497
70	44.610	30	0.495	15	1.123	70	0.467
80	44.320	40	0.499	20	1.113	80	0.440
90	44.030	50	0.503	25	1.103	90	0.415
100	43.740	60	0.507	30	1.092	100	0.393
110	43.450	70	0.511	35	1.082	110	0.372
120	43.170	80	0.515	40	1.072	120	0.353
130	42.880	90	0.519	45	1.062	130	0.336
140	42.590	100	0.524	50	1.052	140	0.320
150	42.300	110	0.528	55	1.042	150	0.306
160	42.010	120	0.532	60	1.032	160	0.292
170	41.730	130	0.536	65	1.022	170	0.280
180	41.440	140	0.540	70	1.012	180	0.268
190	41.150	150	0.544	75	1.002	190	0.257
200	40.860	160	0.548	80	0.992	200	0.247
210	40.580	170	0.552	85	0.982	210	0.238
		180	0.556	90	0.972		
		190	0.560	95	0.961		
		200	0.564	100	0.951		
		210	0.568	105	0.941		
				110	0.931		
				115	0.921		
				120	0.911		
				125	0.901		

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	I	40	0.097	40	0.00204	0	0.334
	N	60	0.196	60	0.00394	25	0.349
	S	80	0.369	80	0.00715	50	0.364
	O	100	0.657	100	0.01227	75	0.378
	L	120	1.114	120	0.02009	100	0.392
	U	140	1.810	140	0.03155	125	0.406
	B	160	2.830	160	0.04775	150	0.420
	L	180	4.279	180	0.06994	175	0.434
	E	200	6.279	200	0.09951	200	0.448
		220	8.970	220	0.13800	225	0.461
		240	12.510	240	0.18690	250	0.474
		260	17.060	260	0.24790	275	0.487
		280	22.830	280	0.32260	300	0.500
		300	30.000	300	0.41280	325	0.513
		320	38.780	320	0.52000	350	0.525
		340	49.400	340	0.64580	375	0.537
		360	62.070	360	0.79160	400	0.550
		380	77.020	380	0.95900	425	0.561
						450	0.573
						475	0.585
						500	0.596
						525	0.608
						550	0.619
						575	0.630
						600	0.640

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2728 2728

Port of Houston Authority - Barbours Cut Terminal

EPAHO108000884

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX.. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2728

Expiration Date 4/14/2010

Generator: Port of Houston Authority-Tellepsen Fireboat
Address: 1819 East Barbours Cut
Morgans Point, TX 77571

Waste Information

Name of Waste:
TCEQ Waste Code #:
Container Type:
Detailed Description of Process Generating Waste:

Color: **Odor:** **pH:**
Physical State:
Incompatibilities:
Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority -Tellepsen Fireboat		
Address:	1819 E. Barbours Cut Blvd.		
City, State, Zip:	Morgans Point, TX 77571		
Contact:	Michael Order	**Title:**	
Phone No:	281.470.5555	**Fax No:**	713-670-2429
24/hr Phone:	281.470.5555		
U.S. EPA I.D. No: TX	CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	500 gal	____

Frequency:	☐ Weekly	☐ Monthly	☒ Quarterly	☐ Yearly

Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000886

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 4-14-08 Approved Rejected

Approval Number: _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000888

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000889

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash and chlor-D-tect on oil; test water for pH, phenols, % solids, metals

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000890

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable):**

black oil

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/23/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2728

Expiration Date 5/23/2010

Generator: Port of Houston Authority-Babours Cut Terminal
Address: 1819 East Barbours Cut Blvd
La Porte, TX 77571

Waste Information

Name of Waste: grease
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
used and unused grease from greasing equipment
Color: dark **Odor:** none **pH:** 7-10
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority -Barbours Cut Terminal		
Address:	1819 E Barbours Cut Blvd.		
City, State, Zip:	Morgans Point, TX 77571		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	281.470.5587	**Fax No:**	713-670-2427
24/hr Phone:	281.470.5587		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxana Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Grease
Detailed Description of Process Generating Waste: Used and unused grease from greasing equipment

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Dark **Odor:** none

Specific Gravity (water=1): ~~1~~ na **Density:** ~~8 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000893

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	0mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Grease	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

na std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

na

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

na

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 5-23-08 Approved Rejected

Approval Number: 2728

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000895

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000896

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$40.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

class 1 solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000897

7. **Tests for Product Recovered/Recycled (if applicable):**

na

8. **Management for Product Recovered/Recycled (if applicable):**

na

Port of Houston 2729
2729

EPAHO108000899

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2729

Expiration Date 4/14/2010

Generator: Port of Houston Authority-Bracewell Fireboat
Address: 1604 Clinton Dr.
Galena Park, TX 77029

Waste Information

Name of Waste: used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: brown/black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strond acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GD

SECTION 1: Generator Information

Company:	Port of Houston Authority -Bracewell Fireboat		
Address:	1604 Clinton Drive		
City, State, Zip:	Galena Park, TX 77029		
Contact:	Steve Edler	**Title:**	
Phone No:	713.678.8292	**Fax No:**	713-670-2429
24/hr Phone:	713.678.8292		
U.S. EPA I.D. No: TX	CESQG		
State I.D.	CESQG	**SIC Code:**	N4

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 500 gal ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000901

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-14-08 Approved Rejected

Approval Number: 2729

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000903

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000904

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash point and chlor-D-tect on oil; test water for pH, phenols, % solids, metals

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable):**

black oil

Port of Houston 2730
2730

EPAHO108000907

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2730

Expiration Date 4/14/2010

Generator: Port of Houston Authority-M/V Houston
Address: 8400 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: brown, black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Port of Houston Authority -M/V Sam Houston		
Address:	8400 Clinton Drive		
City, State, Zip:	Houston, TX 77029		
Contact:	Doug Sims	**Title:**	
Phone No:	713.673.9087	**Fax No:**	713-670-2429
24/hr Phone:	713.673.9087		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☒ **Multi-phase**

Container Type:	☐ **Drum**	☐ **Tote**	☒ **Truck**	☐ **Other (explain)**
Container Size:	____	____	500 gal	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000909

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature] Date: 4-14-08 Approved Rejected Approval Number: 2730	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000911

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000912

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash point & Chlor-D-Tect on oil; test water for pH, Phenols, % solids, metals

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000913

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable):**

black oil

Port of Houston 2731
2731

EPAHO108000915

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2731

Expiration Date 4/14/2010

Generator: Port of Houston Authority-Bracewell Fireboat
Address: 1604 Clinton Dr.
Galena Park, TX 77029

Waste Information

Name of Waste: used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: brown/black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Port of Houston Authority -Bracewell Fireboat		
Address:	1604 Clinton Drive		
City, State, Zip:	Galena Park, TX 77029		
Contact:	Steve Edler	**Title:**	
Phone No:	713.678.8292	**Fax No:**	713-670-2429
24/hr Phone:	713.678.8292		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 500 gal ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000917

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-14-08 Approved Rejected

Approval Number: 2731

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000919

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000920

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash point & chlor-D-tect on oil; test water for pH, phenols, % solids, metals

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable):**

black oil

2732 San Antonio Water
2732

EPAHO108000923

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Lawrence Horan**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2732

Expiration Date 3/26/2010

Generator: San Antonio Water System
Address: 2800 U.S. Hwy 281 N
San Antonio, TX 78228

Waste Information

Name of Waste: sodium hydroxide 2f0% solution
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
unused discarded product/no longer utilized due to system change
Color: clear **Odor:** none **pH:** 13.5
Physical State:
Incompatibilities: strond acids, organics
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

see Sec. 4 OK

SECTION 1: Generator Information

Company:	San Antonio Water System		
Address:	2800 US hwy 281 N		
City, State, Zip:	San Antonio, TX 78228		
Contact:	Floramie Welch	Title:	Environmental Manager
Phone No:	210.233.3744	Fax No:	210.281.9731
24/hr Phone:	210.525.2524		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Responsive Environmental Solutions		
Address:	PO Box 311732		
City, State, Zip:	New Braunfels, TX 78131		
Contact:	Lawrence Horan	Title:	Owner
Phone No:	210.281.9711	Fax No:	210.281.9731

SECTION 3: General Description of the Waste

Name of Waste: Sodium Hydroxide 20% Solution
Detailed Description of Process Generating Waste: Unused Discarded Product/No longer utilized due to system change.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear Odor: ~~Glycol like~~ none

Specific Gravity (water=1): 1.25 Density: 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 5000 g

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 Other: 2-3 Tankers (10-15K gallons)
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution,
Class: 8 UN/NA: UN1824 PG: II RQ: 100lb

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	13.5	0mg/l	0mg/l	<0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	0mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials:	Concentration Ranges are acceptable	Units or %
Sodium Hydroxide Aqueous (20%)	100	%
		%
		%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong acids and any organics

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Curtis Ewers **Date:** 3-18-08

Printed Name/Title: Curtis Ewers Project Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Hayden Additional Information:

Date: 3-26-08 Approved Rejected

Approval Number: 2732

03/18/2008 10:29 2102819731 RES PAGE 03

EPAHO108000926

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or waste water sludge? ☐ YES ☒ NO

If "Yes", complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

03/18/2008 10:29 2102819731 RES PAGE 04

EPAHQ108000927

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

03/18/2008 10:29 2102819731 RES PAGE 05

EPAHO108000928

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

[illegible]

8. **Management for Product Recovered/Recycled (if applicable):**

Gary L to provide outlist for purchase of material
waiting on sample for evaluation

Do not schedule any loads unless there is a buyer for this material.

EPAHO108000929

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

28¢/Gallon — Trans 70.00/Hr + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

unknown

3. **Surcharge Pricing:**

unknown

4. **Special Testing Requirements:**

pH + density - creat an outbound. Gary L. is the contact to outsource this product for sale. The pH is too high and the acid cost is too high for CES to process this as a waste.

5. **Treatment and Handling Protocol:**

Gary L to outbound as product for purchase

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C N/A

2733 Port of Houston
2733

EPAHO108000931

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/15/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2733

Expiration Date 4/14/2010

Generator: Port of Houston Authority-Tellepsen Fireboat
Address: 1819 East Barbours Cut
Morgans Point, TX 77571

Waste Information

Name of Waste: Used antifreeze
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Equipment fluid changes
Color: yellowish/green **Odor:** glycol like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

6B

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority Tellapsan		
Address:	1819 E. Barbours Cut Blvd.		
City, State, Zip:	City of Morgans Point, TX 77571		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2827
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Glen Martin	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Antifreeze
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Yellowish/green **Odor:** glycol like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: NA-Recyclable Material

Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108000933

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	2-4%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-14-08 Approved Rejected

Approval Number: 2733

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000935

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000936

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ Test ~~for~~ % glycol

5. **Treatment and Handling Protocol:**

Glycol Recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000937

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Ethylene Glycol

8. **Management for Product Recovered/Recycled (if applicable):**

Glycol Recycling

EPAHO108000938

Port of Houston 2735
2735

EPAHO108000939

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/18/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2735

Expiration Date 4/17/2010

Generator: Port of Houston Authority-Bayport Marine Dept.
Address: 12555 Port Road
Pasadena, TX 77507

Waste Information

Name of Waste: Crushed light bulbs
TCEQ Waste Code #: UNIV320H
Container Type:
Detailed Description of Process Generating Waste:
Burned out bulbs
Color: white **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JRP Although this is a universal waste what is the char. waste code? → managed as universal waste and does not require EPA Code to manage as such. The relevant code is D009. Robbins

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority (Bayport Terminal)		
Address:	1255 Port Road		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Mike Reilly	**Title:**	Manager
Phone No:	281.291.6140	**Fax No:**	713-670-2427
24/hr Phone:	281.291.6140		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Crushed light bulbs
Detailed Description of Process Generating Waste: Burned out bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: white **Odor:** none

Specific Gravity (water=1): ~~.95-1~~ na **Density:** ~~8 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: UNIV320H

Proper U.S. DOT Shipping Name: Environmentally Hazardous substance, Solid, N.O.S., 9, UN3077, PG III

Class: 9 **UN/NA:** UN3077 **PG:** III **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	~~5-8~~ na	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
~~<1500mg/l~~ na	~~<1500mg/l~~ na	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Flourscent bulbs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: R. H **Date:** 4/10/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [illegible]

Date: 4-17-08 Approved Rejected

Approval Number: 2735

EPA Code
D009

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000943

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000944

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Transportation $70.00 plus FSC

$1.25/lb

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

Send to Environmental light Recyclers

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000945

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

2736 Specialty Heat
2736

EPAHO108000947

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/15/2008**

Dear **Fritz Huss**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2736

Expiration Date 4/15/2010

Generator: Specialty Heat Treat, Inc.
Address: 11315 W. Little York
Houston, TX 77041

Waste Information

Name of Waste: TPH absorbent
TCEQ Waste Code #: CESQ4061
Container Type:
Detailed Description of Process Generating Waste:
Absorbent used to clean up oil spills and diesel fuel spills
Color: grey/white/black **Odor:** oil and diesel like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Specialty Heat Treat, Inc.		
Address:	11315 West Little York		
City, State, Zip:	Houston, TX 77041		
Contact:	Fritz Huss	Title:	Manager
Phone No:	713-937-3101	Fax No:	713-937-4518
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	SIC Code:	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: TPH Absorbent
Detailed Description of Process Generating Waste: Absorbent used to clean up oil spills and diesel fuel spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Grey/White/Black Odor: oil and diesel like

Specific Gravity (water=1): ~~1.2~~ na Density: ~~10 lbs/gal~~ na

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☒ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 gall	300 gallon		

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 Other: _____
Texas State Waste Code No: ----3191 CESQ 4061
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150 200	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
diesel fuel	0-10	%
Motor Oil	0-15	%
Dirt, misc. trash	0-2	%
Clay	20-95	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None-Process Knowledge

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: NA
TCLP Volatiles: NA
TCLP Semi-Volatiles: NA
Reactivity: NA
Corrosivity: NA
Ignitability: NA

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/15/08

Printed Name/Title: F. R. HUSS QA/MAINT. MNGR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ **Additional Information:** _____

Date: 4-15-08 (Approved) Rejected

Approval Number: 2736

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2737 Ineos Polymers
2737

EPAHO108000953

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/18/2008**

Dear **Mark Broome**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2737

Expiration Date 4/18/2010

Generator: Ineos Polymers
Address: 1230 Battleground Road
La Porte, TX 77571

Waste Information

Name of Waste: Base oil
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Line flush base oil
Color: dark brown **Odor:** hydrocarbon **pH:** 7-11
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

RR OK

FB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Ineos Polymers		
Address:	1230 Battleground		
City, State, Zip:	LaPorte, TX 77571		
Contact:	Mark Broome	**Title:**	EH&S Specialist
Phone No:	713-307-3470	**Fax No:**	713-307-3007
24/hr Phone:	832-613-1966		
U.S. EPA I.D. No:			
State I.D.		**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Base Oil
Detailed Description of Process Generating Waste: Line flush Base Oil

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Dark Brown **Odor:** Hydrocarbon

Specific Gravity (water=1): .89 **Density:** 7.5 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	650 gal			

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** as requested
Texas State Waste Code No: ~~N/A~~ ~~RECYCLE~~ PRODUCT
Proper U.S. DOT Shipping Name: NonRCRA/non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ >200	7-11	<20mg/l	<20mg/l	0-~~50~~%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

EPAHO108000955

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Unused Line flush base oil	100	%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

——

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
—— Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Metals are below regulatory limits
TCLP Volatiles: TCLP Volatiles are below regulatory limits
TCLP Semi-Volatiles: TCLP Semi-Volatiles are below regulatory limits
Reactivity: No reactive materials are introduced into the process
Corrosivity: pH is nuetral
Ignitability: No ignitable materials are introduced into the process

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** ~~June 1, 2007~~ 4-18-08

Printed Name/Title: no signature required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information:

Date: 4-18-08 Approved Rejected

Approval Number: 2737

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay $0.54/gal (no trans)
or Pay $1.35/gal minus($400/load + fsc)

2. **Contamination Limits (maximum limit before surcharges apply):**

Base oil compatibility, Do not pay anything if this is not a base oil.

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

flash point, Chlor-D-Tect

5. **Treatment and Handling Protocol:**

Process to base oil.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000957

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Base oil compatibility

8. **Management for Product Recovered/Recycled (if applicable):**

Sell as Base oil

EPAHO108000958

Houston Plating 2738
2738

EPAHO108000959

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/21/2008**

Dear **Joe Stankovich**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2738

Expiration Date 4/21/2010

Generator: Houston Plating & Coatings LLC (Polk Street)
Address: 5301 Polk Street
Houston, TX 77025

Waste Information

Name of Waste: Non-hazardous CRP-240 cleaner
TCEQ Waste Code #: 00022051
Container Type:
Detailed Description of Process Generating Waste:
Cleaner mixed with water to clean parts and equipment
Color: amber **Odor:** mild **pH:** 8.5-9
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
goggles, gloves, protective clothing

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB
Need PRZ
info. Pricing etc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Houston Plating and Coatings LLC		
Address:	5301 Polk Street Bldg. #15 @ Baker Oil Tools, NAL		
City, State, Zip:	Houston, TX 77025		
Contact:	Joe Stankovich	**Title:**	
Phone No:	713-946-8920	**Fax No:**	713-946-8487
24/hr Phone:			
U.S. EPA I.D. No:			
State I.D.	87798	**SIC Code:**	3479

SECTION 2: Billing Information – ☐ Same as Above

Company:	Houston Plating and Coatings LLC (Polk Street)		
Address:	PO Box 418		
City, State, Zip	Houston, TX 77587		
Contact:	Joe Stankovich	**Title:**	
Phone No:	713-946-8920	**Fax No:**	713-946-8487

SECTION 3: General Description of the Waste

Name of Waste: Non- Hazardous CRP-240 Cleaner
Detailed Description of Process Generating Waste: cleaner mixed with water to clean parts and equipment

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: amber **Odor:** mild

Does this material contain any Total phenolic compounds ☐ yes ☒ NO

Specific Gravity (water=1): 1.04 **Density:** 8.66 lbs/gal

Does this material contain any pre substitutes phenolic compounds ☐ yes ☒ NO

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 1300gal ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: 00022051
Proper U.S. DOT Shipping Name: Non-RCRA Waste CRP-240 Cleaner (aquious)
Class: na **UN/NA:** na **PG:** na **RQ:** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>150~~ 200	8.5-9	BRLmg/l	BRLmg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	0mg/l	0mg/l	0mg/l	0mg/l

EPAHO108000961

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-95	%
CRP-240 Cleaner	5-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
goggles, gloves, protective clothing

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS, analytical, chain of custody

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Joseph Stankovich **Date:** 4/18/08

Printed Name/Title: Joseph Stankovich / Vice President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [illegible]	
Date: 4-21-08 (Approved) Rejected	
Approval Number: 2738	

EPAHO108000962

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☑ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☑ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000963

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- [x] Metals Subcategory
- [ ] Oils Subcategory
- [ ] Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000964

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$55/dm ; $0.21/gal ; trans ; FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

pH + Flash point. Must Process to system 1. (high metals and amine)

5. **Treatment and Handling Protocol:**

Process to System 1. (high metals and amine)

6. **Treated Wastewater Discharge Subcategory:**

☑ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108000965

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable);**

HOUSTON PLATING & COATINGS, LLC
Electroless Nickel Plating Spray Coatings SBN/QPQ

P.O. Box 418 1311 Georgia
South Houston, Texas 77587-0418
(713) 946-8920 Fax (713) 946-8487

WASTE STREAM 00022051 USED CRP240
GENERATOR KNOWLEDGE

A composite sample was taken on 6 July 2006 and was analyzed for:

TCLP-Metals-Sb,As,Ba,Be,Cd,Cr,Pb,Ni,Se,Ag,Hg;
TCLP-volatiles+semivolatiles;TPH; Reactivity, Corrosivity, and Ignitability. The analyses report results showed this could be classified as a Class 2 Waste, the Company chooses to play things safe and classify it as a Class 1 waste.

Joseph Stankovich
April 20, 2007

LABORATORY TEST RESULTS

A&B Job ID 82008

Date: 7/18/2006

CUSTOMER: Houston Plating PROJECT: CRP-240 Cleaner/5301 Polk,BOT,NAL Bld ATTN: Joseph Stankovich

Customer Sample ID: Container #1 CRP 240 Cleaner 5301 Polk
Date Collected: 7/6/2006
Time Collected: 14:00
Sample Loc./Other Info:

Job Sample ID: 82008-01
Sample Matrix: Liquid

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 7.3	**Reactivity**								
	Reactive Cyanide	BRL	mg/L	1	25			07/07 17:00	DS
	Reactive Sulfide	BRL	mg/L	1	25			07/07 17:00	DS
SW-846 1010	**Ignitability**								
	Ignitability	>150	°F	1				07/07 9:30	DS
SW-846 9040C	**Corrosivity**								
	pH	8.83	pH units	1				07/07 9:35	DS
SW-846 6010B	**TCLP Metals**								
	Antimony	BRL	mg/L	1	0.1	1		07/11 14:52	SEC
	Arsenic	BRL	mg/L	1	0.1	1.8		07/11 14:52	SEC
	Barium	0.17	mg/L	1	0.1	100		07/11 14:52	SEC
	Beryllium	BRL	mg/L	1	0.1	0.08		07/11 14:52	SEC
	Cadmium	BRL	mg/L	1	0.1	0.5		07/11 14:52	SEC
	Chromium	0.15	mg/L	1	0.1	5		07/11 14:52	SEC
	Lead	2.14	mg/L	1	0.1	1.5		07/11 14:52	SEC
	Nickel	BRL	mg/L	1	0.1	70		07/11 14:52	SEC
	Selenium	BRL	mg/L	1	0.5	1		07/11 14:52	SEC
	Silver	BRL	mg/L	1	0.1	5		07/11 14:52	SEC
SW-846 7470A	**TCLP Mercury**								
	Mercury	BRL	mg/L	1	0.002	0.2		07/11 15:01	SEC
TX 1005	**Total Petroleum Hydrocarbons**								
	C6-C12	2.5	mg/L	1	1.78			07/13 15:15	WH
	>C12-C28	22.4	mg/L	1	1.93			07/13 15:15	WH
	>C28-C35	42.5	mg/L	1	3.42			07/13 15:15	WH
	Total C6-C35	67.4	mg/L	1				07/13 15:15	WH
SW-846 8260B	**TCLP Volatiles**								
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6		07/07 14:45	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5		07/07 14:45	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		07/07 14:45	YZ
	Benzene	BRL	mg/L	1	0.13	0.5		07/07 14:45	YZ
	Carbon Tetrachloride	BRL	mg/L	1	0.13	0.5		07/07 14:45	YZ
	Chlorobenzene	BRL	mg/L	1	0.15	70		07/07 14:45	YZ
	Chloroform	BRL	mg/L	1	1.25	6		07/07 14:45	YZ
	MEK (2-Butanone)	BRL	mg/L	1	2.5	200		07/07 14:45	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7		07/07 14:45	YZ
	Trichloroethylene	BRL	mg/L	1	0.13	0.5		07/07 14:45	YZ
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2		07/07 14:45	YZ
SW-846 8270C	**TCLP Semi-Volatiles**								
	1,4-Dichlorobenzene	BRL	mg/L	20	1	7.5	D1	07/07 17:54	WH
	2,4-Dinitrotoluene	BRL	mg/L	20	1	0.13		07/07 17:54	WH
	Hexachlorobenzene	BRL	mg/L	20	1	0.13		07/07 17:54	WH
	Hexachlorobutadiene	BRL	mg/L	20	1	0.4		07/07 17:54	WH
	Hexachloroethane	BRL	mg/L	20	1	3		07/07 17:54	WH
	2-Methylphenol	BRL	mg/L	20	1	200		07/07 17:54	WH

** BRL - Below Reporting Limit

D1-Sample required dilution due to matrix effects.

LABORATORY TEST RESULTS

A&B Job ID 82008

Date: 7/18/2006

CUSTOMER: Houston Plating PROJECT: CRP-240 Cleaner/5301 Polk,BOT,NAL Bld ATTN: Joseph Stankovich

Customer Sample ID: Container #1 CRP 240 Cleaner 5301 Polk
Date Collected: 7/6/2006
Time Collected: 14:00
Sample Loc./Other Info:

Job Sample ID: 82008-01
Sample Matrix: Liquid

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
SW-846 8270C	**TCLP Semi-Volatiles**									
	3- & 4-Methylphenols	BRL	mg/L	20	1	200		07/07	17:54	WH
	Nitrobenzene	BRL	mg/L	20	1	2		07/07	17:54	WH
	Pentachlorophenol	BRL	mg/L	20	25	100		07/07	17:54	WH
	Pyridine	BRL	mg/L	20	1	4		07/07	17:54	WH
	2,4,5-Trichlorophenol	BRL	mg/L	20	1	400		07/07	17:54	WH
	2,4,6-Trichlorophenol	BRL	mg/L	20	1	2		07/07	17:54	WH

** BRL - Below Reporting Limit

D1-Sample required dilution due to matrix effects.

LABORATORY TEST RESULTS

A&B Job ID 82008

Date: 7/18/2006

CUSTOMER: Houston Plating PROJECT: CRP-240 Cleaner/5301 Polk,BOT,NAL Bld ATTN: Joseph Stankovich

Customer Sample ID: Container #2 CRP 240 Cleaner 5301 Polk
Date Collected: 7/6/2006
Time Collected: 14:00
Sample Loc./Other Info:

Job Sample ID: 82008-02
Sample Matrix: Liquid

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 7.3	**Reactivity**								
	Reactive Cyanide	BRL	mg/L	1	25			07/07 17:00	DS
	Reactive Sulfide	BRL	mg/L	1	25			07/07 17:00	DS
SW-846 1010	**Ignitability**								
	Ignitability	>150	°F	1				07/07 9:30	DS
SW-846 9040C	**Corrosivity**								
	pH	8.89	pH units	1				07/07 9:35	DS
SW-846 6010B	**TCLP Metals**								
	Antimony	BRL	mg/L	1	0.1	1		07/11 14:52	SEC
	Arsenic	BRL	mg/L	1	0.1	1.8		07/11 14:52	SEC
	Barium	0.16	mg/L	1	0.1	100		07/11 14:52	SEC
	Beryllium	BRL	mg/L	1	0.1	0.08		07/11 14:52	SEC
	Cadmium	BRL	mg/L	1	0.1	0.5		07/11 14:52	SEC
	Chromium	0.15	mg/L	1	0.1	5		07/11 14:52	SEC
	Lead	2.39	mg/L	1	0.1	1.5		07/11 14:52	SEC
	Nickel	BRL	mg/L	1	0.1	70		07/11 14:52	SEC
	Selenium	BRL	mg/L	1	0.5	1		07/11 14:52	SEC
	Silver	BRL	mg/L	1	0.1	5		07/11 14:52	SEC
SW-846 7470A	**TCLP Mercury**								
	Mercury	BRL	mg/L	1	0.002	0.2		07/11 15:01	SEC
TX 1005	**Total Petroleum Hydrocarbons**								
	C6-C12	2.4	mg/L	1	1.78			07/13 15:40	WH
	>C12-C28	41.4	mg/L	1	1.93			07/13 15:40	WH
	>C28-C35	97.1	mg/L	1	3.42			07/13 15:40	WH
	Total C6-C35	140.9	mg/L	1				07/13 15:40	WH
SW-846 8260B	**TCLP Volatiles**								
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6		07/07 15:21	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5		07/07 15:21	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		07/07 15:21	YZ
	Benzene	BRL	mg/L	1	0.13	0.5		07/07 15:21	YZ
	Carbon Tetrachloride	BRL	mg/L	1	0.13	0.5		07/07 15:21	YZ
	Chlorobenzene	BRL	mg/L	1	0.15	70		07/07 15:21	YZ
	Chloroform	BRL	mg/L	1	1.25	6		07/07 15:21	YZ
	MEK (2-Butanone)	BRL	mg/L	1	2.5	200		07/07 15:21	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7		07/07 15:21	YZ
	Trichloroethylene	BRL	mg/L	1	0.13	0.5		07/07 15:21	YZ
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2		07/07 15:21	YZ
SW-846 8270C	**TCLP Semi-Volatiles**								
	1,4-Dichlorobenzene	BRL	mg/L	20	1	7.5	D1	07/07 18:44	WH
	2,4-Dinitrotoluene	BRL	mg/L	20	1	0.13		07/07 18:44	WH
	Hexachlorobenzene	BRL	mg/L	20	1	0.13		07/07 18:44	WH
	Hexachlorobutadiene	BRL	mg/L	20	1	0.4		07/07 18:44	WH
	Hexachloroethane	BRL	mg/L	20	1	3		07/07 18:44	WH
	2-Methylphenol	BRL	mg/L	20	1	200		07/07 18:44	WH

** BRL - Below Reporting Limit

D1-Sample required dilution due to matrix effects.

LABORATORY TEST RESULTS

A&B Job ID 82008

Date: 7/18/2006

CUSTOMER: Houston Plating PROJECT: CRP-240 Cleaner/5301 Polk,BOT,NAL Bld ATTN: Joseph Stankovich

Customer Sample ID: Container #2 CRP 240 Cleaner 5301 Polk
Date Collected: 7/6/2006
Time Collected: 14:00
Sample Loc./Other Info:

Job Sample ID: 82008-02
Sample Matrix: Liquid

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270C	**TCLP Semi-Volatiles**								
	3- & 4-Methylphenols	BRL	mg/L	20	1	200		07/07 18:44	WH
	Nitrobenzene	BRL	mg/L	20	1	2		07/07 18:44	WH
	Pentachlorophenol	BRL	mg/L	20	25	100		07/07 18:44	WH
	Pyridine	BRL	mg/L	20	1	4		07/07 18:44	WH
	2,4,5-Trichlorophenol	BRL	mg/L	20	1	400		07/07 18:44	WH
	2,4,6-Trichlorophenol	BRL	mg/L	20	1	2		07/07 18:44	WH

** BRL - Below Reporting Limit

D1-Sample required dilution due to matrix effects.

A & B Environmental Services, Inc.
10100 East Freeway, Suite 100
Houston, Texas 77029

SAMPLE SURROGATE RECOVERY REPORT

Report Date: 7/18/2006

Job ID: 82008

Parameter	Method	CAS #	Spike Added	Spike Result	D.F.	%Rec	% Rec CLIMIT	Analysis DateTime	Analyst	Lab ID	Q
Dibromofluoromethane (Surrogate)	SW-846 8260B	1868-53-7	100	143.5	1	144	70-130	7/7/06 14:45	Yzhang	82008-01	S1
Toluene-d8 (Surrogate)	SW-846 8260B	2037-26-5	100	99.8	1	99.8	70-130			82008-01	
p-Bromofluorobenzene (Surrogate)	SW-846 8260B	460-00-4	100	73.3	1	73.3	70-130			82008-01	
1,2-Dichloroethane-d4 (Surrogate)	SW-846 8260B	107-06-2	100	135.1	1	135	70-130			82008-01	S1
2-Fluorophenol (Surrogate)	SW-846 8270C	367-12-4	100	32.26	20	32.3	20-115	7/7/06 17:54	Whuimei	82008-01	
Phenol-d6 (Surrogate)	SW-846 8270C	13127-88-3	100	126.46	20	126	15-120			82008-01	S1
Nitrobenzene-d5 (Surrogate)	SW-846 8270C	4165-60-0	100	57.38	20	57.4	20-120			82008-01	
2-Fluorobiphenyl (Surrogate)	SW-846 8270C	321-60-8	100	45.83	20	45.8	30-115			82008-01	
2,4,6-Tribromophenol (Surrogate)	SW-846 8270C	118-79-6	100	38.87	20	38.9	10-120			82008-01	
Terphenyl-d14 (Surrogate)	SW-846 8270C	1718-51-0	100	42.29	20	42.3	30-140			82008-01	
Chlorooctadecane	TX 1005	3386-33-2	100	N/A	1		50-149	7/13/06 15:15		82008-01	S5
Dibromofluoromethane (Surrogate)	SW-846 8260B	1868-53-7	100	92.1	1	92.1	70-130	7/7/06 15:21	Yzhang	82008-02	
Toluene-d8 (Surrogate)	SW-846 8260B	2037-26-5	100	100.3	1	100	70-130			82008-02	
p-Bromofluorobenzene (Surrogate)	SW-846 8260B	460-00-4	100	102.8	1	103	70-130			82008-02	
1,2-Dichloroethane-d4 (Surrogate)	SW-846 8260B	107-06-2	100	83.4	1	83.4	70-130			82008-02	
2-Fluorophenol (Surrogate)	SW-846 8270C	367-12-4	100	40.07	20	40.1	20-115	7/7/06 18:44	Whuimei	82008-02	
Phenol-d6 (Surrogate)	SW-846 8270C	13127-88-3	100	25.42	20	25.4	15-120			82008-02	
Nitrobenzene-d5 (Surrogate)	SW-846 8270C	4165-60-0	100	69.54	20	69.5	20-120			82008-02	
2-Fluorobiphenyl (Surrogate)	SW-846 8270C	321-60-8	100	131.82	20	132	30-115			82008-02	S1
2,4,6-Tribromophenol (Surrogate)	SW-846 8270C	118-79-6	100	46.00	20	46	10-120			82008-02	
Terphenyl-d14 (Surrogate)	SW-846 8270C	1718-51-0	100	47.77	20	47.8	30-140			82008-02	
Chlorooctadecane	TX 1005	3386-33-2	100	N/A	1		50-149	7/13/06 15:40		82008-02	S5

S1-Surrogate recovery is above control limit.

S5-Target compounds caused elevation of baseline. Surrogate is not available.

EPAHO108000972

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 7/18/2006

Job ID: 82008

QCType: Duplicate Paramter	Method	QCSapl Result	Dup Result	RPD	RPD CLimits	QCBatchID	QC SampleID	Qual.
Reactive Cyanide	SW-846 7.3	BRL	BRL	0	<20	Q070706rcyn	82008-01	
Reactive Sulfide	SW-846 7.3	BRL	BRL	0	<20	Q070706rsul	82008-01	
pH	SW-846 9040C	8.83	8.83	0	<20	Q070706pH	82008-01	

QCType: LCS and LCSD Parameter	Method		Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	%RPD CLimits	%Rec CLimits	QCBatchID		Qual
Reactive Cyanide	SW-846 7.3		0.5	0.25	0.25	50	50	0.0	<20	40-110	Q070706rcyn		
Reactive Sulfide	SW-846 7.3		1000	920	960	92	96	4.3	<20	40-110	Q070706rsul		
Ignitability	SW-846 1010		83	86	84	104	101	2.4	<20	75-125	Q070706fpta		
pH	SW-846 9040C		4	3.97		99.3			<20	80-120	Q070706pH		
Antimony	SW-846 6010B		1	1.05	1.04	105	104	1.0	<25	80-120	Q071106mt		
Arsenic	SW-846 6010B		1	1.06	1.05	106	105	0.9	<25	80-120	Q071106mt		
Barium	SW-846 6010B		1	1.01	0.98	101	98	3.0	<25	80-120	Q071106mt		
Beryllium	SW-846 6010B		1	1.01	0.97	101	97	4.0	<25	80-120	Q071106mt		
Cadmium	SW-846 6010B		1	1.01	0.98	101	98	3.0	<25	80-120	Q071106mt		
Chromium	SW-846 6010B		1	1.00	0.97	100	97	3.0	<25	80-120	Q071106mt		
Lead	SW-846 6010B		1	0.98	0.97	98	97	1.0	<25	80-120	Q071106mt		
Nickel	SW-846 6010B		1	0.99	0.96	99	96	3.1	<25	80-120	Q071106mt		
Selenium	SW-846 6010B		1	1.06	1.04	106	104	1.9	<25	80-120	Q071106mt		
Silver	SW-846 6010B		1	0.98	0.96	98	96	2.1	<25	80-120	Q071106mt		
Mercury	SW-846 7470A		0.005	0.005		100			<35	71-143	Q071106hgt		
C6-C12	TX 1005		500	535.3	575.9	107	115	7.3	<25	70-130	q071306tph1005		

** BRL-Below Reporting Limit

M1-MS/MSD recovery is above control limit. LCS/LCSD meet acceptance criteria.

EPAHO108000973

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 7/18/2006

Job ID: 82008

QCType: LCS and LCSD

Parameter	Method		Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	%RPD CLimits	%Rec CLimits	QCBatchID		Qual
>C12-C28	TX 1005		500	500.5	555.4	100	111	10.4	<25	70-130	q071306tph1005		
>C28-C35	TX 1005		500	472.8	544.2	94.6	109	14.0	<25	70-130	q071306tph1005		
1,1-Dichloroethylene	SW-846 8260B		0.5	0.5276		106			<35	70-130	q070706voc2a		
Benzene	SW-846 8260B		0.5	0.5499		110			<35	70-130	q070706voc2a		
Chlorobenzene	SW-846 8260B		0.5	0.5250		105			<35	70-130	q070706voc2a		
Trichloroethylene	SW-846 8260B		0.5	0.5346		107			<35	70-130	q070706voc2a		
Pyridine	SW-846 8270C		0.25	0.0644	0.0660	25.8	26	2.5	<35	6-65	q070706sv2a		
2-Methylphenol	SW-846 8270C		0.25	0.0895	0.0844	35.8	34	5.9	<35	20-92	q070706sv2a		
Hexachloroethane	SW-846 8270C		0.25	0.0848	0.0821	33.9	33	3.2	<35	26-98	q070706sv2a		
3- & 4-Methylphenols	SW-846 8270C		0.5	0.1758	0.1597	35.2	32	9.6	<35	20-85	q070706sv2a		
Nitrobenzene	SW-846 8270C		0.25	0.0986	0.0985	39.4	39	0.1	<35	31-102	q070706sv2a		
Hexachlorobutadiene	SW-846 8270C		0.25	0.0801	0.0793	32.0	32	1.0	<35	26-89	q070706sv2a		
2,4,6-Trichlorophenol	SW-846 8270C		0.25	0.0979	0.0987	39.2	39	0.8	<35	24-104	q070706sv2a		
2,4,5-Trichlorophenol	SW-846 8270C		0.25	0.1020	0.1058	40.8	42	3.7	<35	30-107	q070706sv2a		
Hexachlorobenzene	SW-846 8270C		0.25	0.1412	0.1407	56.5	56	0.4	<35	34-130	q070706sv2a		
1,4-Dichlorobenzene	SW-846 8270C		0.25	0.0868	0.0857	34.7	34	1.3	<35	28-99	q070706sv2a		
2,4-Dinitrotoluene	SW-846 8270C		0.25	0.1078	0.1041	43.1	42	3.5	<35	25-112	q070706sv2a		

QCType: MS and MSD

Parameter	Method	QCSapl Result	Spike Added	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD	RPD CLimits	%Rec CLimits	QCBatchID	QC SampleID	Qual
Antimony	SW-846 6010B	BRL	2	1.99	2.04	100	102	2.5	<25	70-125	Q071106mt	82008-01	
Arsenic	SW-846 6010B	BRL	2	2.13	2.19	107	110	2.8	<25	45-138	Q071106mt	82008-01	
Barium	SW-846 6010B	0.17	2	2.08	2.11	96	97	1.6	<25	50-125	Q071106mt	82008-01	
Beryllium	SW-846 6010B	BRL	2	1.97	2.00	99	100	1.5	<25	70-125	Q071106mt	82008-01	

** BRL-Below Reporting Limit

M1-MS/MSD recovery is above control limit. LCS/LCSD meet acceptance criteria.

EPAHO108000974

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 7/18/2006

Job ID: 82008

QCType: MS and MSD Parameter	Method	QCSapl Result	Spike Added	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD	RPD CLimits	%Rec CLimits	QCBatchID	QC SampleID	Qual
Cadmium	SW-846 6010B	BRL	2	1.90	1.93	95	97	1.6	<25	56-125	Q071106mt	82008-01	
Chromium	SW-846 6010B	0.15	2	2.06	2.09	96	97	1.6	<25	52-125	Q071106mt	82008-01	
Lead	SW-846 6010B	2.14	2	3.91	4.01	89	94	5.5	<25	50-125	Q071106mt	82008-01	
Nickel	SW-846 6010B	BRL	2	1.90	1.93	95	97	1.6	<25	70-125	Q071106mt	82008-01	
Selenium	SW-846 6010B	BRL	2	2.46	2.51	123	126	2.0	<25	50-125	Q071106mt	82008-01	M1
Silver	SW-846 6010B	BRL	2	1.82	1.85	91	93	1.6	<25	50-125	Q071106mt	82008-01	
Mercury	SW-846 7470A	BRL	0.005	0.0049	0.0051	98	102	4.0	<35	61-175	Q071106hgt	82008-01	
1,1-Dichloroethylene	SW-846 8260B	BRL	0.5	0.5422	0.6217	108	124	13.7	<35	70-130	q070706voc2a	81979-01	
Benzene	SW-846 8260B	BRL	0.5	0.5560	0.5760	111	115	3.5	<35	70-130	q070706voc2a	81979-01	
Chlorobenzene	SW-846 8260B	BRL	0.5	0.5326	0.5370	107	107	0.8	<35	70-130	q070706voc2a	81979-01	
Trichloroethylene	SW-846 8260B	BRL	0.5	0.5485	0.5598	110	112	2.0	<35	70-130	q070706voc2a	81979-01	

QCType: Method Blank Parameter	Method	CAS #	Result	Units	D.F.	Rpt Limit	QCBatch ID		Qual
Reactive Cyanide	SW-846 7.3		BRL	mg/L	1	25	Q070706rcyn	Reactivity	
Reactive Sulfide	SW-846 7.3		BRL	mg/L	1	25	Q070706rsul	Reactivity	
Antimony	SW-846 6010B	7440-36-0	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Arsenic	SW-846 6010B	7440-38-2	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Barium	SW-846 6010B	444-39-3	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Beryllium	SW-846 6010B	7440-41-7	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Cadmium	SW-846 6010B	7440-43-9	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Chromium	SW-846 6010B	7440-47-3	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Lead	SW-846 6010B	7439-92-1	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Nickel	SW-846 6010B	7440-02-0	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Selenium	SW-846 6010B	7782-49-2	BRL	mg/L	1	0.5	Q071106mt	TCLP Metals	
Silver	SW-846 6010B	7440-22-4	BRL	mg/L	1	0.1	Q071106mt	TCLP Metals	
Mercury	SW-846 7470A	7439-97-6	BRL	mg/L	1	0.002	Q071106hgt	TCLP Mercury	

** BRL-Below Reporting Limit

M1-MS/MSD recovery is above control limit. LCS/LCSD meet acceptance criteria.

EPAHO108000975

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 7/18/2006

Job ID: 82008

QCType: Method Blank

Parameter	Method	CAS #	Result	Units	D.F.	Rpt Limit	QCBatch ID		Qual
C6-C12	TX 1005		BRL	mg/L	1	1.78	q071306tph1005	Total Petroleum Hydrocarbons	
>C12-C28	TX 1005		BRL	mg/L	1	1.93	q071306tph1005	Total Petroleum Hydrocarbons	
>C28-C35	TX 1005		BRL	mg/L	1	3.42	q071306tph1005	Total Petroleum Hydrocarbons	
1,1-Dichloroethylene	SW-846 8260B	75-35-4	BRL	mg/L	1	0.13	q070706voc2a	TCLP Volatiles	
1,2-Dichloroethane	SW-846 8260B	107-06-2	BRL	mg/L	1	0.13	q070706voc2a	TCLP Volatiles	
1,4-Dichlorobenzene	SW-846 8260B	106-46-7	BRL	mg/L	1	0.15	q070706voc2a	TCLP Volatiles	
Benzene	SW-846 8260B	71-43-2	BRL	mg/L	1	0.13	q070706voc2a	TCLP Volatiles	
Carbon Tetrachloride	SW-846 8260B	56-23-5	BRL	mg/L	1	0.13	q070706voc2a	TCLP Volatiles	
Chlorobenzene	SW-846 8260B	108-90-7	BRL	mg/L	1	0.15	q070706voc2a	TCLP Volatiles	
Chloroform	SW-846 8260B	67-66-3	BRL	mg/L	1	1.25	q070706voc2a	TCLP Volatiles	
MEK (2-Butanone)	SW-846 8260B	78-93-3	BRL	mg/L	1	0.05	q070706voc2a	TCLP Volatiles	
Tetrachloroethylene	SW-846 8260B	127-18-4	BRL	mg/L	1	0.15	q070706voc2a	TCLP Volatiles	
Trichloroethylene	SW-846 8260B	79-01-6	BRL	mg/L	1	0.13	q070706voc2a	TCLP Volatiles	
Vinyl Chloride	SW-846 8260B	75-01-4	BRL	mg/L	1	0.1	q070706voc2a	TCLP Volatiles	
1,4-Dichlorobenzene	SW-846 8270C	106-46-7	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
2,4-Dinitrotoluene	SW-846 8270C	121-14-2	BRL	mg/L	1	0.025	q070706sv2a	TCLP Semi-Volatiles	
Hexachlorobenzene	SW-846 8270C	118-74-1	BRL	mg/L	1	0.025	q070706sv2a	TCLP Semi-Volatiles	
Hexachlorobutadiene	SW-846 8270C	87-68-3	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
Hexachloroethane	SW-846 8270C	67-72-1	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
2-Methylphenol	SW-846 8270C	95-48-7	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
3- & 4-Methylphenols	SW-846 8270C		BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
Nitrobenzene	SW-846 8270C	98-95-3	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
Pentachlorophenol	SW-846 8270C	87-86-5	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
Pyridine	SW-846 8270C	110-86-1	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
2,4,5-Trichlorophenol	SW-846 8270C	95-95-4	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	
2,4,6-Trichlorophenol	SW-846 8270C	88-06-2	BRL	mg/L	1	0.05	q070706sv2a	TCLP Semi-Volatiles	

** BRL-Below Reporting Limit

M1-MS/MSD recovery is above control limit. LCS/LCSD meet acceptance criteria.

EPAHO108000976

A & B Labs

Chain of Custody

Page 1 of 1

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID 62006

5. Project #

1. REPORT TO:
Company: Houston Plating Coatings LLC
Address: P.O. BOX 418
SOUTH HOUSTON, TX 77587
Contact: Joseph STANKOVICH
Phone: 713 946 8920
Fax: 713 946 7326
E-mail: jjees@houstonplating.com

2. INVOICE TO:
Company: Houston Plating Coatings LLC
Address: P.O. BOX 418
SOUTH HOUSTON, TX 77587
Contact: Accounts Payable
Phone: 713 946 8920
Fax: 713 946 7326
E-mail:

3. PO# 3850

4. Turnaround Time (Business Days)
☐ Same Day* ☐ Need by
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☑ 7 Days
* Surcharge applies

6. Project Name / Location CRP-240 Cleaner 5301 POLK, BOT, NAL, Bldg #15

7. Special Instructions (PLEASE PRINT) USE EPA + TCEQ Approved Methods for waste Classification
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached

8. Sampler's Name & Company (PLEASE PRINT)
JOSEPH STANKOVICH
Houston Plating Coatings, LLC

Sampler's Signature & Date: Joseph Stankovich 7/6/06

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	Time	11. Comp.	Grab	12. Matrix Water	Soil	Sludge	Oil	Air	Other	13. No. of Containers	14. Containers*	15. Preservatives**	16. Analyses/Methods TCLP-11 Metals	TCLP Semi Volat. + Volat.	B.C.L.	TPH				17. REMARKS
														6	C								
01	1	Container #1 CRP-	7-6-06	2:00 PM	✓	–	–	–	–	–	–	✓	1	✓	✓	✓	✓	–	–	–			Liquid Cleaner on
	2	240 Cleaner 5301 POLK	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			ICE
	3	Bldg. #15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			–
	4																						
02	5	Container #2 CRP-	7-6-06	2:00 PM	✓	–	–	–	–	–	–	✓	1	✓	✓	✓	✓	–	–	–			Liquid Cleaner on
	6	240 Cleaner 5301 POLK	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			ICE
	7	Bldg. #15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			–
	8																						
	9																						
	10																						

18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1 Joseph Stankovich	7-7-06		M. Colendes	7-7-06	9:07
2					
3					

20. KNOWN HAZARDS / COMMENTS
NONE KNOWN

*Containers: VOA - 40 ml vial; A/G - Amber/Glass 1 Liter; 4 oz/8 oz - glass wide mouth; P/O - Plastic/other
**Preservatives: C - Cool; H - HCl; N - HNO_3; S - H_2SO_4; OH - NaOH; T - $Na_2S_2O_3$; X - Other

METHOD OF SHIPMENT Delivered by JPS
BILL OF LADING / TRACKING # 3850

LAB USE ONLY SAMPLING ____ / RENTAL ____ P/U ____

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A & B reserves the right to return samples

EPAHO108000977

Sample Condition Checklist

Date : 7/7/2006

Lab ID#: 82008	Date Received : 07/07/2006	Time Received : 09:07 AM
Company Name: Houston Plating Company, LLC		
Temperature: 3°C	Sample pH: N/A	

	Check Points	Yes	No
1.	Cooler Seal present and signed.		x
2.	Sample(s) in a cooler.	x	
3.	If yes, ice in cooler	x	
4.	Sample(s) received with chain-of-custody	x	
5.	C-O-C signed and dated.	x	
6.	Sample(s) received with signed sample custody seal.	x	
7.	Sample containers arrived intact (If No comment)	x	
8.	Matrix Water ☐ Soil ☐ Liquid ☑ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐		
9.	Samples were received in appropriate container(s)	x	
10.	All samples were tagged or labeled.	x	
11.	Sample ID labels match C-O-C ID's.	x	
12.	Bottle count on C-O-C matches bottles found.	x	
13.	Sample volume is sufficient for analyses requested.	x	
14.	Samples were received within the hold time.	x	
15.	VOA vials compelety filled.	N/A	
16.	Sample accepted.	x	

Comments: Include actions taken to resolve discrepancies/problem:

Temperature Blank was provided.

Received by : Mkolander

Check in by/date : Mkolander / 7/7/2006

LABORATORY ANALYSIS REPORT

A & B Environmental Services, Inc.
10100 East Freeway, Suite 100
Houston, TX 77029

Report Date: 7/18/2006
Total No. Pages: 12

Client Project ID

CRP-240 Cleaner/5301 Polk,BOT,NAL Bldg #15

Houston Plating
Attn: Joseph Stankovich
P.O. Box 418
South Houston, TX 77587

Client PO #: 3850
Date Received: 7/7/2006 9:07
Collected by: Joseph Stankovich

A & B Labs has analyzed the following samples . . .

Your Sample ID	Job ID
Container #1 CRP 240 Cleaner 5301 Polk Bldg #15	82008-01
Container #2 CRP 240 Cleaner 5301 Polk Bldg #15	82008-02

Thank you for choosing A & B Labs.

Approved By: Jennifer Bishop
Title: Project Manager

Date: 7/18/2006

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NALCO

MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **CRP-240**

COMPANY IDENTIFICATION : Nalco Company
1601 W. Diehl Road
Naperville, Illinois
60563-1198

EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC

NFPA 704M/HMIS RATING
HEALTH : 2 / 2 FLAMMABILITY : 0 / 0 INSTABILITY : 0 / 0 OTHER :
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
Hexylene Glycol	107-41-5	5.0 - 10.0
Triethanolamine	102-71-6	5.0 - 10.0

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

WARNING
Irritating to eyes and skin.
Do not get in eyes, on skin, on clothing. Do not take internally. Keep container tightly closed. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.
Wear suitable protective clothing, gloves and eye/face protection.
May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :
Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :
Can cause mild to moderate irritation.

SKIN CONTACT :
Can cause mild to moderate irritation.

EPAHO108000980

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MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

INGESTION :
Not a likely route of exposure. May cause nausea and vomiting.

INHALATION :
Repeated or prolonged exposure may irritate the respiratory tract.

SYMPTOMS OF EXPOSURE :
Acute :
A review of available data does not identify any symptoms from exposure not previously mentioned.
Chronic :
A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS :
A review of available data does not identify any worsening of existing conditions.

HUMAN HEALTH HAZARDS - CHRONIC :
No adverse effects expected other than those mentioned above.

4. FIRST AID MEASURES

EYE CONTACT :
Immediately flush eye with water for at least 15 minutes while holding eyelids open. If irritation persists, repeat flushing. Get immediate medical attention.

SKIN CONTACT :
Immediately flush with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

INGESTION :
Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :
Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN :
Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : None

EXTINGUISHING MEDIA :
This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Keep containers cool by spraying with water. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :
May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.

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MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

Triethanolamine	OSHA has not adopted an exposure limit for this substance.

ENGINEERING MEASURES :
General ventilation is recommended.

RESPIRATORY PROTECTION :
Respiratory protection is not normally needed. If significant mists, vapors or aerosols are generated an approved respirator is recommended. An organic vapor cartridge with dust/mist prefilter or supplied air may be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :
Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION :
Wear standard protective clothing.

EYE PROTECTION :
Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :
If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Keep an eye wash fountain available. Keep a safety shower available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber
ODOR	Mild

SPECIFIC GRAVITY	1.04
DENSITY	8.66 lb/gal
SOLUBILITY IN WATER	Complete
pH (100 %)	9.0 - 9.5
MELTING POINT	25 °F / -3.9 °C
BOILING POINT	212 °F / 100 °C

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY :
Stable under normal conditions.

HAZARDOUS POLYMERIZATION :
Hazardous polymerization will not occur.

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MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

CONDITIONS TO AVOID :
Extremes of temperature

MATERIALS TO AVOID :
Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. SO2 may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles.

HAZARDOUS DECOMPOSITION PRODUCTS :
Under fire conditions: Oxides of carbon, Oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :
This product is not expected to be a sensitizer.

CARCINOGENICITY :
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

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MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

LAND TRANSPORT :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :
Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

Triethanolamine : Irritant
Hexylene Glycol : Eye irritant

CERCLA/SUPERFUND, 40 CFR 117, 302 :
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

X	Immediate (Acute) Health Hazard
-	Delayed (Chronic) Health Hazard
-	Fire Hazard
-	Sudden Release of Pressure Hazard
-	Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :
This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :
None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :
This product contains the following substances listed in the regulation:

Substance(s)	Citations
• Glycol Ethers	Sec. 112

CALIFORNIA PROPOSITION 65 :
This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :
None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :
The following substances are disclosed for compliance with State Right to Know Laws:

Triethanolamine	102-71-6
Hexylene Glycol	107-41-5

NATIONAL REGULATIONS, CANADA :

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION :
D2B - Materials Causing Other Toxic Effects - Toxic Material

16. OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

EPAHO108000985

NALCO

MATERIAL SAFETY DATA SHEET

PRODUCT

CRP-240

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department
Date issued : 02/28/2004
Version Number : 1.6

EPAHO108000986

2739 Enterprise Products
2739

EPAHO108000987

Gary Peterson

From: Marlin Moser
Sent: Friday, May 16, 2008 7:21 AM
To: Gary Peterson; Godefroy Gbery; Bo Cumberland
Subject: FW: Enterprise Port Allen Hydrocarbon and Water

Gary, I got called about this last night and then I got this e-mail this morning. You approved this profile (2739) and the treatment section makes no sense. It says to separate hydrocarbons, treat water and discharge. Two sentences later it says take to Newpark. I guess Godfrey didn't feel like coming up with a treatment scheme so he called me and told me the PFI says process to system 1. We only get .16 per gallon so look at the sample this morning and try to figure out why we can not treat this for .16 cents since we were the ones that originally ran the treatability. The ammonia was 110 ppm but I think we could add bleach and make a profit, maybe not but then we should surcharge. Two of these loads came in yesterday and they were sent to Newpark by your instructions so we need at least 6 cents per gallon of surcharges to make a profit. We need to call the customer this morning so I want an answer ASAP.

From: Ryan Thomas
Sent: Thursday, May 15, 2008 8:24 PM
To: Marlin Moser
Subject: Enterprise Port Allen Hydrocarbon and Water

I noticed that we are only charging $0.16 per gallon for disposal on this material and the PFI states to go to system 1 for processing if unable to treat easily. Have we been testing treatability in the lab? As far as I can see, we have sent ALL the loads to system 1 treatment. I thought our minimum charge for system 1 materials was $0.25/gallon. Is this correct? If so, then we are probably at a loss with this load.

Ryan

EPAHO108000988

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/21/2008**

Dear **Roy Hebert**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2739

Expiration Date 4/21/2010

Generator: Enterprise Products Operating, L.P. - Port Allen
Address: 2220 North River Rd.
Port Allen, LA 70767

Waste Information

Name of Waste: Lightend hydrocarbons and water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
The wastewater is generated from the following processes: disengaged water collected th feed coalescer; water collected from the dehydrator regeneration in the regen separator bc water/methanol decanted from amine regenerator reflux (amine regenerator

Color: varies **Odor:** slight **pH:** 6-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Processing - heat tank for oil + flash treatment - take water to system 1 processing

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Enterprise Products Operating LLC - Port Allen		
Address:	2220 North River Road		
City, State, Zip:	Port Allen, LA 70767		
Contact:	Rory Hebert	**Title:**	Field Environmental Scientist
Phone No:	225-381-3459	**Fax No:**	225-381-3476
24/hr Phone:	225-278-596		
U.S. EPA I.D. No:	LAR000033100		
State I.D.	D0022	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating, LLC		
Address:	2220 North River Road		
City, State, Zip:	Port Allen LA 70767		
Contact:	Rory Hebert	**Title:**	Field Environmental Scientist
Phone No:	225-381-3459	**Fax No:**	225-381-3476

SECTION 3: General Description of the Waste

Name of Waste: Lightend hydrocarbons and water
Detailed Description of Process Generating Waste: The wastwater is generated from the following processes.
-disengaged water collected in the feed coalescer
-water collected from the dehydrator regeneration in the regen separator boot
-water/methanol decanted from amine regenerator reflux (amine regenerator reflux is primarily water but can contain large amounts c methanol)
-caustic injection pump containment area
-amine treating and regeneration containment area
-gaso treater & water wash containment area
-waste caustic drain (hasn't been used in several years - will not be used unless Exxon requires gaso to be treated)
-gaso water wash drain (hasn't been used in several years - will not be used unless Exxon requires gaso to be treated)
-gaso tank settling pot drain (hasn't been used in several years - will not be used unless Exxon requires gaso to be treated)

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** slight

Specific Gravity (water=1): .9-1 **Density:** 8.2-8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☐ **Drum**	☐ **Tote**	☒ **Truck**	☐ **Other (explain)**
Container Size:	____	____	5000	____

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Frequency: ☒ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2 **Other:** _____
Texas State Waste Code No: RECYCLE

Proper U.S. DOT Shipping Name: Flammable Liquids, n.o.s.

Class: 3 **UN/NA:** UN 1993 **PG:** II **RQ:**

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	6-10	0mg/l	0mg/l	0-2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	8000mg/l	7.12mg/l	0.055mg/l	0.107mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	90-95	%
Natural Gas	1-5	%
Gasoline	1-5	%
Amines	1-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above an attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willfi omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materia tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/15/08

Printed Name/Title: Rory Hebert

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Olagua	
Date: 4-21-08 (Approved) Rejected	
Approval Number: 2739	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☒ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108000992

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108000993

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Recycling: $0.16/gallon
Freight: $900.00/load

2. **Contamination Limits (maximum limit before surcharges apply):**

Solids: 1%
TOC: 10,000

3. **Surcharge Pricing:**

Solids: $0.01/gallon/1% greater than 1%
TOC: $0.03/gallon/5,000 TOC greater than 10,000

4. **Special Testing Requirements:**

pH, TOC (on water phase), Flash, metals

5. **Treatment and Handling Protocol:**

separate hydrocarbons from water phase, put hydrocarbons in with CES lightends, treat water phase and discharge
Most loads of the Water will require processing to system 1. All loads received will need to process to the oily water tank for processing w/ heat to separate Oil and water and to remove the flash point from the water. Process to Oil heat tank. Take water to System 1 processing.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108000994

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

EPAHO108000995

2740 Delta Chemical
2740

EPAHO108000996

7E
8-4-09
LAB
T-35

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/21/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2740

Expiration Date 4/21/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Mixed alpha olefins
TCEQ Waste Code #: 00254092
Container Type:
Detailed Description of Process Generating Waste:
Unused off-spec product
Color: light **Odor:** mild **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Mixed Alpha Olefins
Detailed Description of Process Generating Waste: Unused Off-spec product

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: light **Odor:** mild

Specific Gravity (water=1): 0.8 **Density:** 6.7 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55-gal	____	____	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 0-40 **Other:** ____
Texas State Waste Code No: 00254092
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material
Class: na **UN/NA:** na **PG:** na **RQ:** ns

EPAHO108000999

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140 200	neutral	0 mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
≤1500mg/l	≤1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Alpha Olefin C20-24	0-100%	
Alpha Olefin 30+	0-100%	
Alpha Olefin C16-C18	0-100%	
APAO Butene Copolymer	0-100%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Mevard **Date:** 4-9-08

Printed Name/Title: Tim Mevard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Maynard Date: 4-21-08 (Approved) Rejected Approval Number: 2740	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001001

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001002

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$165/drum + tran + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No free liquids

3. **Surcharge Pricing:**

$50 /drum Stabilization

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

① Chaso 2 NH Bulk
② If in large quantities - store onsite for wax sale

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

* If in large quantities, resell

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Alapha Olefin - Mixed Waxes

Synonyms: None Established
Product CAS No.: Other

Company Identification:
Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

Product Information:
MSDS Requests: 1 - (800) 852-5530
Technical Information: 1 - (800) 852-5531
Responsible Party: Product Safety Group
Email:msds@cpchem.com

24-Hour Emergency Telephone Numbers
HEALTH:Chevron Phillips Emergency Information Center 866.442.9628 (North America) and 1.832.813.4984 (International)
TRANSPORTATION: North America: CHEMTREC 800.424.9300 or 703.527.3887
ASIA: +1.703.527.3887
EUROPE: BIG .32.14.584545 (phone) or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600

SECTION 2 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW
White, waxy solid.

****

IMMEDIATE HEALTH EFFECTS:
Eye: Not expected to cause prolonged or significant eye irritation. If this material is heated, thermal burns may result from eye contact.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. If this material is heated, thermal burns may result from skin contact. Thermal burns to the skin: may include pain or feeling of heat, discoloration, swelling, and blistering.
Ingestion: Not expected to be harmful if swallowed.
Inhalation: Not expected to be harmful if inhaled. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the upper respiratory tract.

EPAHO108001005

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT	EINECS	SYM	R-PHRASES
Alkenes C30+ HA	260255-62-7	0 - 100 % weight	NE	NA	NA
Alkenes, C24-54 Branched & Linear, Alpha	131459-42-2	0 - 100 % weight	NE	NA	NA
Alpha Olefin Fraction, 20-24	93924-10-8	0 - 100 % weight	300-202-1	NA	NA
Alpha Olefin Fraction, 24-28	93924-11-9	0 - 100 % weight	300-203-7	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
Alkenes C30+ HA	CPCHEM	Not Established	NA	NA	NA
Alkenes, C24-54 Branched & Linear, Alpha	CPCHEM	Not Established	NA	NA	NA
Alpha Olefin Fraction, 20-24	CPCHEM	Not Established	NA	NA	NA
Alpha Olefin Fraction, 24-28	CPCHEM	Not Established	NA	NA	NA

MEDICAL APPLICATION CAUTION: Do not use this Chevron Phillips Chemical Company LP material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

Do not use this Chevron Phillips Chemical Company LP material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company LP or by an authorized or approved Chevron Phillips Chemical Company LP distributor under a contract which expressly acknowledges the contemplated use.

Chevron Phillips Chemical Company LP makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention. If heated material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses, if worn. Get immediate medical attention.
Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop. If the hot material gets on skin, quickly cool in water. See a doctor for extensive burns. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil, mineral oil, or petroleum jelly is recommended for removal of this material from the skin.
Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.
NFPA RATINGS: **Health:** 0 **Flammability:** 1 **Reactivity:** 0

FLAMMABLE PROPERTIES:
Flashpoint: > 183°C (>361.4°F)
Autoignition: 259°C (498.2°F)
Flammability (Explosive) Limits (% by volume in air): Lower: NA **Upper:** NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. If heated material is spilled, allow it to cool before proceeding with disposal methods.
Reporting: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

Precautionary Measures: Do not breathe vapor or fumes from heated material. Avoid contact of heated material with eyes, skin, and clothing. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Unusual Handling Hazards: Potentially toxic/irritating fumes may be evolved from heated material.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material.To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77), Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
If user operations generate airborne material, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure. Use in a well-ventilated area. If heated material generates vapor or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work practices are not adequate to prevent eye contact. If this material is heated, wear chemical goggles or safety glasses and a face shield.
Skin Protection: If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate to prevent skin contact.
Respiratory Protection: Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists
Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
Alkenes C30+ HA	CPCHEM	Not Established	NA	NA	NA
Alkenes, C24-54 Branched & Linear, Alpha	CPCHEM	Not Established	NA	NA	NA
Alpha Olefin Fraction, 20-24	CPCHEM	Not Established	NA	NA	NA
Alpha Olefin Fraction, 24-28	CPCHEM	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White, waxy solid.
pH: NA
Flashpoint: > 183°C (>361.4°F)
VAPOR PRESSURE: NA
VAPOR DENSITY (AIR=1): NA
BOILING POINT: >316°C (>600.8°F)
SOLUBILITY (in water): Soluble in hydrocarbon solvents; insoluble in water.
VISCOSITY: >5 cSt @ 37.8 °C (100°F)
MELTING POINT: >35°C (>95°F)
SPECIFIC GRAVITY: 0.8095 @ 15.6 °C (60°F)
DENSITY: 0.8095 g/ml @ 15.6 °C (60°F)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: No Data Available
Incompatibility With Other Materials: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: No Data.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity: LD50 / not known
Acute Dermal Toxicity: LD50 / not available
Acute Inhalation Toxicity: LC50 / not available

Eye Irritation: This material is not expected to be irritating to the eyes.
Skin Irritation: This material is not expected to be irritating to the skin.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on data for a similar material.

ENVIRONMENTAL FATE:
This material is not expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Shipping Descriptions per regulatory authority.

US DOT
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

ICAO / IATA
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	NO
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:
01= CA Prop 65 17 = FDA 178 33 = RCRA Waste Appendix VIII

02 = LA RTK
03 = MA RTK
04 =MN Hazardous Substance
05 =NJ RTK
06 = PA RTK
07 = CAA Section 112 HAPs
08 = CWA Section 307
09 = CWA Section 311
10 =DOT Marine Pollutant
11 = FDA 172
12 = FDA 173
13 = FDA 174
14 = FDA 175
15 = FDA 176
16 = FDA 177
18 = FDA 179
19 = FDA 180
20 = FDA 181
21 = FDA 182
22 = FDA 184
23 = FDA 186
24 = FDA 189
25 = IARC Group 1
26 = IARC Group 2A
27 = IARC Group 2B
28 = IARC Group 3
29 = IARC Group 4
30 = NTP Carcinogen
31 = OSHA Carcinogen
32 = OSHA Highly Hazardous
34 = RCRA Waste D-List
35 = RCRA Waste P-List
36 = RCRA Waste U-List
37 = SARA Section 302
38 = SARA Section 313
39 = TSCA 12 (b)
40 = TSCA Section 4
41 = TSCA Section 5(a)
42 = TSCA Section 8(a) CAIR
43 = TSCA Section 8(a) PAIR
44 = TSCA Section 8(d)
45 = WHIMS - IDL
46 = Germany D TAL
47 = Germany WKG
48 = DEA List 1
49 = DEA List 2

No components of this material were found on the regulatory lists above.

WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CHEMICAL INVENTORY LISTINGS:
AUSTRALIA: This material contains components that require notification before sale or importation into Australia.
CANADA: This material contains components that require notification before sale or importation.
KOREA: This material contains components that require notification before sale or importation into Korea.
UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.
PHILIPPINES: This material contains components that require notification before sale or importation into the Philippines.
PEOPLE'S REPUBLIC OF CHINA: This material contains components that require notification before sale or importation into China.

EU Symbols: NA - Not Applicable

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0 Special: NA

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

REVISION STATEMENT: This revision updates all sections of the MSDS please review.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:
TLV - Threshold Limit Value TWA - Time Weighted Average

STEL	- Short-term Exposure Limit	PEL	- Permissible Exposure Limit
ACGIH	- American Conference of Government Industrial Hygienists	OSHA	- Occupational Safety & Health Administration
NIOSH	- National Institute for Occupational Safety & Health	NFPA	- National Fire Protection Agency
WHMIS	- Workplace Hazardous Materials Information System	IARC	- Intl. Agency for Research on Cancer
EINECS	- European Inventory of existing Commercial Chemical Substances	RCRA	- Resource Conservation Recovery Act
SARA	- Superfund Amendments and Reauthorization Act.	TSCA	- Toxic Substance Control Act
EC50	- Effective Concentration	LC50	- Lethal Concentration
LD50	- Lethal Dose	CAS	- Chemical Abstract Service
NDA	- No Data Available	NA	- Not Applicable
<=	- Less Than or Equal To	>=	- Greater Than or Equal To
CNS	- Central Nervous System	MAK	- Germany Maximum Concentration Values

This data sheet is prepared according to the latest adaptation of the EEC Guideline 67/548.
This data sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This data sheet is prepared according to the ANSI MSDS Standard (Z400.1).
This data sheet was prepared by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

HUNTSMAN

MATERIAL SAFETY DATA SHEET

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

MSDS CODE AND NAME	:	*RT2830 RT2830 APAO BUTENE COPOLYMER*
DATE ISSUED	:	11/5/2004
DATE PRINTED	:	11/5/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

MSDS CODE AND NAME

RT2830 RT2830 APAO BUTENE COPOLYMER

Chemical Name and/or Family or Description:

Amorphous Poly-Alpha-Olefin Copolymer

COMPANY INFORMATION

Huntsman Polymers Corporation
PO Box 4980
The Woodlands, TX 77387-4980

TELEPHONE NUMBERS
Transportation Emergency
Company: (800) 328-8501
CHEMTREC: (800) 424-9300
Medical Emergency: (409) 722-9673 (24 Hour)
General MSDS Assistance: (281) 719-6432
Technical Information: (800) 233-1159

2. COMPOSITION AND INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.
Product and/or Component(s) Carcinogenic According to:

OSHA IARC NTP OTHER NONE X

Composition:

Chemical Name	CAS Number	Exposure Limits	Range in %
1-Butene, polymer with 1-propene	29160-13-2		>99.0
modifiers/additives	CBI		<1.0

EPAHO108001012

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Colorless liquid in molten state.
Light grey, waxy, amorphous solid at room temperature.

Odor:

Odorless

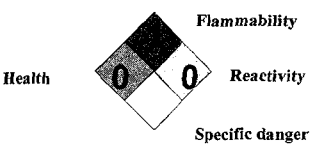
WARNING STATEMENT

CAUTION! MAY CAUSE EYE IRRITATION.
MOLTEN PRODUCT CAN CAUSE THERMAL BURNS

Hazardous Material Information System (United States)

Health	0
Fire	1
Reactivity	0
Personal protection	

National Fire Protection Association NFPA (United States)



POTENTIAL HEALTH EFFECTS

Primary Route of Exposure

Eye X **Skin** X **Inhalation** X **Ingestion**

Effects of Overexposure

Acute:

Eyes:	Eye contact with hot or molten product can cause eye burns.
Skin:	Skin contact with hot or molten product can cause skin burns.
Inhalation:	Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.
Ingestion:	May cause abdominal discomfort, nausea, and diarrhea.
Sensitization Properties:	Unknown

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

None

EPAHO108001013

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:

In case of contact with hot or molten product, soak affected area in coldest water available. Do not attempt to remove solidified material. Get medical attention.

Ingestion:

None considered necessary.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

None

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

>232 (>450°F)

Flammable Limits % (Lower-Upper):

Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

Hazardous melting and dripping may occur at elevated temperatures. May burn at or above flash point, and airborne dust may explode if ignited. See National Fire Protection Prevention Association Bulletin 654, "Dust Explosion Prevention, Plastics Industry 1975".

Special Protective Equipment for Firefighters:

No special equipment or procedures required.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Contain spill if possible. Avoid breathing vapor. Wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. Avoid contact with eyes, skin, and clothing. Molten material may be allowed to solidify for recovery with non-sparking tools.

EPAHO108001014

7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

Practice good housekeeping and clean up spills immediately, as this product can present a serious slipping hazard. If molten material is loaded into moist fiber board containers, water vapor evolution will cause foaming. In extreme cases, the released water vapor can splash the molten material.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact. Heat resistant face shield recommended when handling hot material.

Skin Protection:

Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits must also be worn. Insulated gloves also required if contact with molten product or heated equipment is expected.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use NIOSH approved respirator as appropriate. It is recommended that adequate ventilation be provided at external extrusion points where the product is at elevated temperatures.

Exposure Limit for the Total Product:

None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Colorless liquid in molten state.
Light grey, waxy, amorphous solid at room temperature.

Odor:

Odorless

Boiling Point (degrees C):

Not applicable.

Melting/Freezing Point (degrees C):

Softening Point: 107-113 (225-235°F)

Specific Gravity (water=1):

Not applicable.

pH:

EPAHO108001015

Not applicable.

Vapor Pressure:

Not applicable.

Viscosity:

Not applicable.

VOC Content:

Non-volatile.

Vapor Density (Air=1):

Not applicable.

Solubility in Water (%):

Insoluble

Other:

None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:

Air Water Heat Strong Oxidizers Others None of these X

Comments:

This product is softened by oxidizing agents (i.e. nitric acid, free halogens), hydrocarbons (i.e. benzene, gasoline, petroleum ether), and by chlorinated hydrocarbons

Products Evolved When Subjected to Heat or Combustion:

At processing temperatures some degree of thermal degradation will occur. A variety of decomposition products may occur including, simple hydrocarbons, to toxic and irritating gases such as carbon, carbon monoxide, carbon dioxide, acids, ketones, and aldehydes.

Hazardous Polymerizations:

DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Oral:
LD50 > 5.00 g/kg (rat) practically non-toxic
Dermal:
LD50 > 2.00 g/kg (rabbit) practically non-toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin:
(Draize) Believed to be < .50 /8.0 (rabbit) no appreciable effect
Eyes:
(Draize) Believed to be < 15.00 /110 (rabbit) no appreciable effect

Other:

None

EPAHO108001016

12. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks:

None

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:
Elevated temperature liquid, N.O.S. (Hot Propylene-butene Copolymer)

Hazard Class:
9

Identification Number:
UN 3257

Packing Group:
III

Label Required:
Class 9 + HOT

This shipping information only applies when the material is shipped in molten form. The pelletized form of this product is not regulated by DOT.

IMDG

Proper Shipping Name:
Elevated temperature liquid, N.O.S. (Hot Propylene-butene Copolymer)

Hazard Class
9

Identification Number
UN 3257

Packing Group
III

Label Required
Class 9 + ELEVATED TEMPERATURE

This shipping information only applies when the material is shipped in molten form. The pelletized form of this product is not regulated by IMDG.

ICAO

Proper Shipping Name:
Not regulated.

TDG

Proper Shipping Name:
Not evaluated.

Hazard Class:
Not evaluated.

EPAHO108001017

Identification Number:
Not evaluated.

Label Required:
Not evaluated.

14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
None.				

Section 311 Hazardous Categorization:

Acute **Chronic** **Fire** **Pressure** **Reactive** **N/A** X

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
None.		

CERCLA 102(a)/DOT Hazardous Substances:

Chemical Name	CAS Number	Range in %	RQ
None.			

States Right-to-Know Regulations:

Chemical Name	State Right-to-know
None.	

California Prop. 65:
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
None.	

INTERNATIONAL REGULATIONS:

TSCA Inventory Status:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Classification:

Not determined.

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:

This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

EPAHO108001018

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:

Not determined.

Mobility:

Not determined.

Persistence and Biodegradability:

Not determined.

Potential to Bioaccumulate:

Not determined.

Remarks:

None

16. OTHER INFORMATION 11/5/2004

None

Date Issued: 11/5/2004.

THE INFORMATION IN THIS DATA SHEET IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT. IT IS PROVIDED FOR THE PURPOSE OF HAZARD COMMUNICATION AS PART OF HUNTSMAN'S PRODUCT SAFETY PROGRAM. IT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE PRODUCT BY A PROPERLY TRAINED PERSON. YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. THE DATA RELATES ONLY TO THE SPECIFIC PRODUCT DESIGNATED, AND DOES NOT RELATE TO USE OF THE PRODUCT IN COMBINATION WITH ANY OTHER MATERIAL OR USE OF THE PRODUCT IN ANY PROCESS. THE DATA IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT, ITS COMPOSITION, ITS SAFETY OR THE INFORMATION CONTAINED IN THIS DATA SHEET.

TO DETERMINE THE APPLICABILITY OR THE EFFECTS OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, THE USER SHOULD CONSULT A LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. HUNTSMAN DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

CURRENT DATA SHEETS ARE AVAILABLE FOR ALL HUNTSMAN PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL HUNTSMAN PRODUCTS YOU BUY, USE OR DISTRIBUTE BY CALLING (281) 719-6432 OR DIRECTING YOUR INQUIRIES TO:

HUNTSMAN
MANAGER, PRODUCT SAFETY
P.O. BOX 4980
THE WOODLANDS, TX 77387-4980

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.

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2714 Port of Houston
2714

EPAHO108001020

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/11/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2714

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Turning basin terminal
Address: 7300 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Floor dry
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
Clean up of oil spills
Color: white/grey **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GRP
OK

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority - Turning Basin Terminal		
Address:	Upper Level Road		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxana Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Floor dry
Detailed Description of Process Generating Waste: Clean up of oil spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White/Grey **Odor:** oil like

Specific Gravity (water=1): ~~1.4~~ NA **Density:** ~~10 lbs/gal~~ NA

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 Gal			

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891

Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001022

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent	80-98	%
Oil (motor oil, hydraulic oil)	2-20	%
Misc trash and debris	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: R. H. **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Prabhu Patel

Date: 3-26-08 Approved Rejected

Approval Number: 2714

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001024

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001025

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA Must have no free liquids

5. **Treatment and Handling Protocol:**

~~NA~~ Class 1 solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable);**

NA

2715 Port of Houston
2715

EPAHO108001028

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2715

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Bracewell Fireboat
Address: 1604 Clinton Dr.
Galena Park, TX 77029

Waste Information

Name of Waste: used antifreeze
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment fluid changes
Color: yellowish, green **Odor:** glycol like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strond acids and bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

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OK

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority – Bracewell Fireboat		
Address:	1604 Clinton Dr.		
City, State, Zip:	Galena Park, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2827
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxana Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Antifreeze
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Yellowish/green **Odor:** glycol like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55 Gal

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**

Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001030

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	2-4%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 3-26-08 Approved Rejected

Approval Number: 2715

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001032

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001033

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA , Test for glycol %

5. **Treatment and Handling Protocol:**

Glycol Recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108001034

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Ethylene Glycol

8. **Management for Product Recovered/Recycled (if applicable);**

Glycol Recycling

2716 Port of Houston
2716

EPAHO108001036

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2716

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Tellepsen Fireboat
Address: 1819 East Barbours Cut
Morgans Point, TX 77571

Waste Information

Name of Waste: floor dry
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
clean up of oil spills
Color: white/grey **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BP
OK

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority – Tallepsen Firebrat		
Address:	1819 E. Barbours Cut Blvd.		
City, State, Zip:	City of Morgans Point, TX 77571		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2827
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	ROXANNA HERRERA	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Floor dry
Detailed Description of Process Generating Waste: Clean up of oil spills

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: White/Grey **Odor:** oil like

Specific Gravity (water=1): 1.4 **Density:** 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55 Gal

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**

Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001038

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent	80-98	%
Oil (motor oil, hydraulic oil)	2-20	%
Misc trash and debris	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 3-26-08 (Approved) Rejected

Approval Number: 2716

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001040

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001041

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA there can be no free floating liquids.

5. **Treatment and Handling Protocol:**

~~NA~~ class 1 solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable);**

NA

2717 Port of Houston
2717

EPAHO108001044

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/11/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2717

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Turning basin terminal
Address: 7300 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Oil fileters
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
equipment filter changes
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston – Turning Basin Terminal		
Address:	Upper Level Road		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2829
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxana Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Oil filters
Detailed Description of Process Generating Waste: Equipment filter changes

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various **Odor:** oil like

Specific Gravity (water=1): 1.2 **Density:** 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001046

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	98%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Spent Oil Filters	98-100	%
oil	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 3-26-08 Approved Rejected

Approval Number: 2717

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001048

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001049

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 Drum Transportation $70.00 hour plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

NA

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

Recycle Oil Filters

2718 Port of Houston
2718

EPAHO108001052

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/11/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2718

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Turning basin terminal
Address: 7300 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Oily shop towels
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
Rags from general cleaning
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

9/P
OK

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston - Turning Basin Terminal		
Address:	Upper Level Road		
City, State, Zip:	Houston, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2427
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	ROXANNA HERRERA	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Oily Shop Towels
Detailed Description of Process Generating Waste: Rags from General cleaning

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various **Odor:** oil like

Specific Gravity (water=1): 1.1 **Density:** 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001054

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 3-26-08 Approved Rejected

Approval Number: 2718

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001056

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001057

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45.00 per drum Transportation $70.00 hr plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA There can be no free floating liquids.

5. **Treatment and Handling Protocol:**

NA

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

Recycled Rags

EPAHO108001059

Port of Houston 2719
2719

EPAHO108001060

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2719

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Tellepsen Fireboat
Address: 1819 East Barbours Cut
Morgans Point, TX 77571

Waste Information

Name of Waste: Oily shop towels
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
rags from general cleaning
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DP

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority - Telegram Fireboat		
Address:	1819 E. Barbours Cut Blvd.		
City, State, Zip:	City of Morgans Point, TX 77571		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2827
24/hr Phone:	713-676-1460		
U.S. EPA I.D. No:	N CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxana Herrera	**Title:**	
Phone No:	713.670.2405	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Oily Shop Towels
Detailed Description of Process Generating Waste: Rags from General cleaning

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various **Odor:** oil like

Specific Gravity (water=1): 1.1 **Density:** 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 Gal			

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891

Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001062

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: R. H. **Date:** 3/17/08

Printed Name/Title: Roxana Herrera, Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rabbul Alangad

Date: 3-26-08 Approved Rejected

Approval Number: 2719

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001064

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001065

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45.00 per drum Transportation $70.00 hr plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA there can not be any free floating liquids.

5. **Treatment and Handling Protocol:**

NA

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108001066

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable);**

Recycled Rags

Port of Houston 2720

2720

EPAHO108001068

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2720

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Bracewell Fireboat
Address: 1604 Clinton Dr.
Galena Park, TX 77029

Waste Information

Name of Waste: floor dry
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
clean up of oil spills
Color: white/grey **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

GB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Port of Houston Authority - Bracewell Fireboat		
Address:	1604 Clinton Dr.		
City, State, Zip:	Galena Park, TX 77029		
Contact:	Roxana Herrera	**Title:**	Manager
Phone No:	713-670-2814	**Fax No:**	713-670-2827
24/hr Phone:	713-6767-1460		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	ROXANNA Herrera	**Title:**	
Phone No:	713.6702463	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Floor dry
Detailed Description of Process Generating Waste: Clean up of oil spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White/Grey **Odor:** oil like

Specific Gravity (water=1): 1.4 **Density:** 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 Gal			

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: CESQ4891

Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001070

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent	80-98	%
Oil (motor oil, hydraulic oil)	2-20	%
Misc trash and debris	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 3-17-08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 3-26-08 Approved Rejected

Approval Number: 2720

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001072

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001073

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$35.00 drum Transportation $70.00 plus FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA there can be no free floating liquids.

5. **Treatment and Handling Protocol:**

~~NA~~ Class 1 Solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

CES Environmental Services, Inc.

Out of State Mileage Logs

Folder ID :	CES Environmental Services Sale of Sulfidic Caustic

DATE: _____

DRIVER NAME: _____

Beginning Odometer	Ending Odometer

Total Trip Miles	Truck #	Trailer #	Start From	Destination

State	Starting Odometer	Ending Odometer	Miles per State	Route Traveled

SIGNATURE: _____

#251 - RRI - replace

#250 - LRO - flat

#253 - R.R.O. replace

#205 - RRI - replace

#228 - RFI - flat

PRO TIRE

ID M D1
2721
DATE

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/10/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2721

Expiration Date 4/10/2010

Generator: IDM
Address: 11616 Galayao
Houston, TX 77086

Waste Information

Name of Waste: Diesel
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used diesel from equipment
Color: clear **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

DB

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: IDM
Address: 11616 GALAYDA
City, State, Zip: HOUSTON, TX 77086
Contact: WILLIAM CORDOBA Title: SAFETY COORDINATOR
Phone No: 281-447-9000 Fax No: 281-931-0499
24/hr Phone: 281-703-1145
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG SERVICES
Address: 10707 HONEA EGYPT RD.
City, State, Zip: MONTGOMERY, TX 77316
Contact: ZAC McKAUGHAN Title: PRESIDENT
Phone No: 281-541-4829 Fax No: 936-756-1276

SECTION 3: General Description of the Waste

Name of Waste: diesel
Detailed Description of Process Generating Waste: used diesel from equipment

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear Odor: Hydrocarbon

Specific Gravity (water=1): .7-.8 Density: 7-8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☑ Quarterly ☐ Yearly
Number of Units (containers): 10-15 Other: ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: ~~Diesel Fuel~~ UN 1993, Combustible liquid, n.o.s. 3, PG III
Class: 3 UN/NA: 1993 PG: III RQ: NA

EPAHO108001080

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	—	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 4: Physical and Chemical Data

[redacted]	[redacted]	[redacted]
The waste consists of the following materials	Ranges are acceptable	or %
DIESEL	100	0/0

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

— Std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

— none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

— Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: —
TCLP Volatiles: —
TCLP Semi-Volatiles: —
Reactivity: —
Corrosivity: —
Ignitability: —

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/3/08

Printed Name/Title: Tim McKaughan

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-10-08 (Approved) Rejected

Approval Number: 2721

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

No-Charge if no Water
If water - than $25/dm-save QC

2. **Contamination Limits (maximum limit before surcharges apply):**

Water-what % if any

3. **Surcharge Pricing:**

$25/dm if water >2%

4. **Special Testing Requirements:**

Chlor-d-Tect
Flash
%water, % solids

5. **Treatment and Handling Protocol:**

Used oil or Fuels

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108001082

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

See #4

8. **Management for Product Recovered/Recycled (if applicable);**

~~Used Oil~~ or Fuels

EPAHO108001083

IDM
2722

2722

EPAHQ108001084

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/10/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2722

Expiration Date 4/10/2010

Generator: IDM
Address: 11616 Galayao
Houston, TX 77086

Waste Information

Name of Waste: Antifreeze
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used antifreeze from equipment
Color: dark **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: IDM
Address: 11616 GALAYDA
City, State, Zip: HOUSTON, TX 77086
Contact: WILLIAM CORDOBA Title: SAFETY COORDINATOR
Phone No: 281-447-9000 Fax No: 281-931-0499
24/hr Phone: 281-702-1145
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: NR

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG SERVICES
Address: 10707 HONEA EGYPT RD.
City, State, Zip: MONTGOMERY, TX 77316
Contact: ZAC MCKAUGHAN Title: PRESIDENT
Phone No: 281-541-4829 Fax No: 936-756-1276

SECTION 3: General Description of the Waste

Name of Waste: antifreeze
Detailed Description of Process Generating Waste: used antifreeze from equipment

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: None

Specific Gravity (water=1): 11-15 Density: 11-14 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☑ Quarterly ☐ Yearly
Number of Units (containers): 10-15 Other: ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Recyclable Antifreeze + Water Mixture
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108001086

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
X >200	neutral	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
na mg/l	na mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATION	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
antifreeze	50	%
water	50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: 0
TCLP Volatiles: —
TCLP Semi-Volatiles: —
Reactivity: —
Corrosivity: —
Ignitability: —

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/10/08

Printed Name/Title: Ian McKay

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-10-08 (Approved) Rejected

Approval Number: 2722

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$30/dm if >30% Glycol
$35/dm if less

2. **Contamination Limits (maximum limit before surcharges apply):**

~~Water-what % Glycol~~

3. **Surcharge Pricing:**

~~$25/dm if water >2%~~

4. **Special Testing Requirements:**

~~% EG~~ % glycol

5. **Treatment and Handling Protocol:**

~~EG to Hutchesen Hays~~

Glycol recycling

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108001088

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

See #4

8. **Management for Product Recovered/Recycled (if applicable):**

See 5

IDM 2723

2723

EPAHQ108001090

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/10/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2723

Expiration Date 4/10/2010

Generator: IDM
Address: 11616 Galayao
Houston, TX 77086

Waste Information

Name of Waste: Oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used oil from equipment
Color: dark **Odor:** oil like **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: IDM
Address: 11616 GALAYDA
City, State, Zip: HOUSTON, TX 77086
Contact: WILLIAM CORDOBA Title: SAFETY COORDINATOR
Phone No: 281-447-9000 Fax No: 281-931-0499
24/hr Phone: 281-702-1145
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG SERVICES
Address: 10707 HONEA EGYPT RD.
City, State, Zip: MONTGOMERY, TX 77316
Contact: ZAC MCKAUGHAN Title: PRESIDENT
Phone No: 281-541-4829 Fax No: 936-756-1276

SECTION 3: General Description of the Waste

Name of Waste: Oil
Detailed Description of Process Generating Waste: used oil from equipment

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: oil like

Specific Gravity (water=1): .8 Density: 7-8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 10-15 Other:
Texas State Waste Code No: Recycleable
Proper U.S. DOT Shipping Name: Recycleable Used Oil
Class: NA UN/NA: NA PG: NA RQ: NA

EPAHO108001092

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~<140~~ >140	Na	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
Na mg/l	Na mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 4: Physical and Chemical Data

[redacted]	[redacted]	[redacted]
The waste consists of the following materials	Ranges are acceptable	or %
used oil	100	2/2

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: 0
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ Date: 4/2/08

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-10-08 (Approved) Rejected

Approval Number: 2723

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

No-Charge if no Water
If water - than $25/dm-save QC

2. **Contamination Limits (maximum limit before surcharges apply):**

~~Water-what % if any~~

3. **Surcharge Pricing:**

$25/dm if water >2%

4. **Special Testing Requirements:**

Chlor-d-Tect
Flash
%water
% solids

5. **Treatment and Handling Protocol:**

Used oil

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

EPAHO108001094

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

See #4

8. **Management for Product Recovered/Recycled (if applicable):**

Used Oil

2724 Champion
2724

EPAHO108001096

CES Environmental
Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/10/2008**

Dear **Jim Scialabba**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2724

Expiration Date 4/10/2010

Generator: Champion Technologies
Address: 3131 FM 521
Fresno, TX 77545

Waste Information

Name of Waste: Hazardous process vessel rinse water
TCEQ Waste Code #: 4129101H
Container Type:
Detailed Description of Process Generating Waste:
Water from rinsing out vessels in chemical manufacturing plant
Color: varies **Odor:** none **pH:** 5-9
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DRP
OK

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Champion Technologies		
Address:	3131 FM 521		
City, State, Zip:	Fresno, TX 77545		
Contact:	Shawn Dennis	**Title:**	
Phone No:	281-710-9593	**Fax No:**	281-431-3665
24/hr Phone:	281-520-1965		
U.S. EPA I.D. No:	TXD000356816		
State I.D.	31502	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Champion Technologies		
Address:	P.O.Box 450499		
City, State, Zip:	Houston, TX 77245-0499		
Contact:	Shawn Dennis	**Title:**	
Phone No:	281-710-9593	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Hazardous Process Vessel Rinse water
Detailed Description of Process Generating Waste: Water from rinsing out vessels in chemical manufacturing plant

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** none

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☐ **Drum**	☐ **Tote**	☒ **Truck**	☐ **Other (explain)**
Container Size:	____	____	5,000 gal	____

Frequency: ☒ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2-3 **Other:** ____
Texas State Waste Code No: 4129101H, D001
Proper U.S. DOT Shipping Name: Waste Flammable Liquids, n.o.s.
Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:** na

EPAHO108001098

Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:**

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	5-9	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	10,000mg/l	5.7mg/l	0.244mg/l	0.2mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	80-90	%
Xylene	0-5	%
Trimethylbenzene	0-5	%
Napthalene	0-5	%
Formaldehyde	0-5	%
Heavy aromatic naptha	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
~~MSDS~~ Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
— none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Shaun Dennis **Date:** 4-3-08

Printed Name/Title: Shaun Dennis HSE

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [illegible]

Date: 4-10-08 Approved Rejected

Approval Number: ~~3724~~ 2724

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☒ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Freight: $69.00/hour
Volume less than 2 loads per week: $0.35/gallon
Volume of 2 or more loads per week: $0.25/gallon

2. **Contamination Limits (maximum limit before surcharges apply):**

TOC: 15,000
Solids: 1%

3. **Surcharge Pricing:**

TOC: $0.03/gallon/5,000 TOC greater than 15,000 TOC
Solids: $0.01/gallon/% greater than 1%

4. **Special Testing Requirements:**

pH, phenols, flash, TOC, metals, solids, run flash Point on water phase only; ~~If the water flash point is greater than 140°F then the water phase can go to the waste water treatment system if all else is OK.~~

5. **Treatment and Handling Protocol:**

Process material to the gassy water tank for organic and water separation

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☒ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

Pull hyrdrocarbons off
PUT IN CES RESTRICTED LIGHTENDS

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 8040130
Client Sample ID: Wastewater (Hazardous)
Extended ID: Champion Technologies / PO#0308-59

Sample Collect Date: 4/7/2008 @ 2:15:00 PM **Sample Type:** Comp
Sample Receipt Date: 4/7/2008 @ 4:01:00 PM

Test Group / Method

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: JA Date / Time	
Arsenic	0.014	5	< 0.014	mg/L	4/9/2008 /	3:33 PM
Barium	0.0005	100	**0.0950**	**mg/L**	4/9/2008 /	3:33 PM
Cadmium	0.002	1	< 0.002	mg/L	4/9/2008 /	3:33 PM
Chromium	0.002	5	**0.023**	**mg/L**	4/9/2008 /	3:33 PM
Lead	0.005	5	< 0.005	mg/L	4/9/2008 /	3:33 PM
Selenium	0.024	1	**0.024**	**mg/L**	4/9/2008 /	3:33 PM
Silver	0.002	5	< 0.002	mg/L	4/9/2008 /	3:33 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: TFR Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	4/9/2008 /	3:17 PM

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time	
Vinyl chloride	0.10	0.2	< 0.10	mg/L	4/9/2008 /	1:51 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	4/9/2008 /	1:51 PM
2-Butanone	0.50	200	< 0.50	mg/L	4/9/2008 /	1:51 PM
Chloroform	0.05	6	< 0.05	mg/L	4/9/2008 /	1:51 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	4/9/2008 /	1:51 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	4/9/2008 /	1:51 PM
Benzene	0.05	0.5	< 0.05	mg/L	4/9/2008 /	1:51 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	4/9/2008 /	1:51 PM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	4/9/2008 /	1:51 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	4/9/2008 /	1:51 PM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	4/9/2008 /	1:51 PM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	4/9/2008 /	1:51 PM

EPAHO108001104

- CERTIFICATE OF RESULTS -

MES Lab#: 8040130

Client Sample ID: Wastewater (Hazardous)
Extended ID: Champion Technologies / PO#0308-59

Sample Collect Date: 4/7/2008 @ 2:15:00 PM **Sample Type:** Comp
Sample Receipt Date: 4/7/2008 @ 4:01:00 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Manager

Wednesday, April 09, 2008
Date

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental Services Inc
COMPANY ADDRESS: 4904 Griggs Rd ~~Houston~~
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-948-9804 FAX #: 713676-16716

2

YOUR PROJECT NO.:
YOUR P.O. #: 0308-59
YOUR PROJECT NAME: Champion Technologies
PROJECT ADDRESS:

3 **4**

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Volatiles	TCLP 8 Metals						NUMBER OF CONTAINERS	PRESERVATIONS	**5** REMARKS
Wastewater (Hazardous)	Comp	4-7-08	215p	liquid	X	X						1		TURNAROUND TIME: RUSH DETECTION LIMITS SPECIAL LIMITS REQUIRED Yes No Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.) a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter DATE 04/07/08 TIME 1600 RECEIVED BY: (Signature)

7

RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)

METHOD OF PAYMENT SHIPPED BY: (Signature) COURIER (Signature) RECEIVED FOR MES BY: (Signature) DATE TIME

8

Sample Remainder Disposal
☐ Return Sample Remainder To Client Via
☐ Reques: Lab To Dispose Of All Sample Remainders
(Signature) (Date)

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

PAGE 03/03
MES
04/09/2008 16:27 2814764406
EPAHO108001106

#61956

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536

Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental Services Inc

COMPANY ADDRESS: [illegible]

CITY Houston STATE TX ZIP 77021

CONTACT PERSON'S NAME: Dina Carter

CONTACT PERSON'S PHONE: 713-748-7621 FAX #: 713-676-1176

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
	0208-59	Champion Technologies

PROJECT ADDRESS:

3 **4** **5**

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP VOA	TCLP Metals						NUMBER OF CONTAINERS	PRESERVATIONS	REMARKS
Wastewater (Hazardous)	Comp	4-7-98	2:00	liquid	X	X						1		

PARAMETERS FOR ANALYSIS

TURNAROUND TIME: Rush

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No

Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):	RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
a. Dina Carter b. Dina Carter	Dina Carter	[illegible]	[illegible]	

7

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

METHOD OF PAYMENT	SHIPPED BY: (Signature)	COURIER (Signature)	RECEIVED FOR MES BY: (Signature)	DATE	TIME

8

Sample Remainder Disposal

☐ Return Sample Remainder To Client Via _____

☐ I Request Lab To Dispose Of All Sample Remainders

(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample **PINK – Retained by Customer** **WHITE – Returned with Report**

EPAHO108001107

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 03/17/08

From: Miles Root

Lab Memo: 08-038

Subject: **Champion Technologies Sample Evaluations 0308-58 and 59**

Two samples from Champion Technologies, Fresno, have been evaluated as potential receipts at CES. These two samples represent evaluations 0308-58, tank 7907 and 0308-59, tank 7906, respectively. An equal volume composite was made of these two samples since they looked identical. Both have an organic looking layer on top representing less than 1% oils. The sample was heated and acidified and the top layer removed before the water treat. Not doing this keeps the organics as a floating layer through the process. The treated water has a high zinc content of 5.7 mg/L, but this can be diluted down with other low metals process water. Flash point is 125 deg F, but that is not an issue with our new hazardous waste permit. It will come in under a D001 code and be processed in the back to remove the organics. A table summarizing the test results is shown below.

Champion Technologies	
Evals 0308-58 & 59	
pH	5
Phenols	10 ppm
Flash Point	125 deg F
TOC	7485
Solids	0
Metals	
Cd	0.184
Cr	0.247
Cu	0.244
Ni	0.200
Zn	5.7

2725 Port of Houston
2725

EPAHO108001109

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/11/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2725

Expiration Date 4/11/2010

Generator: Port of Houston Authority-Farnsworth Fireboat
Address: 809 Lakeside Drive
Channelview, TX 77530

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Equipment fluid changes
Color: brown/black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers, strong acids, bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Port of Houston Authority -Farnsworth fireboat		
Address:	809 lakeside Drive		
City, State, Zip:	Channelview, TX 77530		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2827
24/hr Phone:	713.676.1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☒ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55 ____ ____ ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 6 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

EPAHO108001111

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-10-08 Approved Rejected

Approval Number: 2725

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001113

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001114

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash, chlor-D-Tect on oil; test water for pH, phenols, metals, solids

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable);**

black oil

EPAHO108001116

Part of Houston 9726

2726

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Roxana Herrera**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2726

Expiration Date 4/14/2010

Generator: Port of Houston Authority-Turning basin terminal
Address: 7300 Clinton Drive
Houston, TX 77029

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Equipment fluid changes
Color: brown/black **Odor:** oil like **pH:** 7-10
Physical State:
Incompatibilities: Oxidizers, strong acids, bases
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

GB

SECTION 1: Generator Information

Company:	Port of Houston Authority -Turning Basin Terminal		
Address:	Upper level Rd		
City, State, Zip:	Houston, TX 77029		
Contact:	Steve Senulis	**Title:**	
Phone No:	713.670.2889	**Fax No:**	713-670-2429
24/hr Phone:	713.670.2889		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Port of Houston Authority		
Address:	Environ mental Affairs 111 East Loop North		
City, State, Zip:	Houston, Texas 77029		
Contact:	Roxanna Herrera	**Title:**	
Phone No:	713.670.2814	**Fax No:**	713.670.2427

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment fluid changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: brown/black **Odor:** oil like

Specific Gravity (water=1): .80-1.0 **Density:** 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 500 gal ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200 F	7-10	0mg/l	0mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	0-10	%
Oil	90-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 3/19/08

Printed Name/Title: Roxana Herrera, Program Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 4-14-08 Approved Rejected

Approval Number: 2726

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001121

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001122

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
Transportation $70.00 hour plus fuel surcharge

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

~~NA~~ flash point, chlor-D-Tect on oil; run pH, phenols, metals, % solids on water

5. **Treatment and Handling Protocol:**

Black Oil Management

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor-D-Tect, flash point

8. **Management for Product Recovered/Recycled (if applicable):**

black oil

TBC Brianaoli 2727
2727

EPAHO108001125

XE
8-4-09
T-35
LAB

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/14/2008**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2727

Expiration Date 4/14/2010

Generator: TBC Brianadd
Address: 235 Fariss St.
Houston, TX 77054

Waste Information

Name of Waste: RCRA empty containers
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
RCRA empty containers (drums and totes) last containing non-hazardous materials
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

DB

SECTION 1: Generator Information

Company:	TBC Brinadd		
Address:	235 Farris Street		
City, State, Zip:	Houston, TX 77034		
Contact:	Rick Womack	**Title:**	Operations Manager
Phone No:	713-664-4911	**Fax No:**	713-664-6128
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	CKG Services		
Address:	10707 Honea Egypt Rd		
City, State, Zip:	Montgomery, TX 77316		
Contact:	Zac Mckahan	**Title:**	
Phone No:	281-541-4829	**Fax No:**	936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: RCRA Empty Containers
Detailed Description of Process Generating Waste: RCRA Empty Containers (Drums and Totes) last containing non-hazardous Materials

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder**
X **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Varies **Odor:** None

Specific Gravity (water=1): ~~7-1.3~~ na **Density:** ~~7-11 lbs/gal~~ na

Does this material contain any total phenolic compounds? ☐ **Yes** X☐ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** X☐ **No**

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ **Yes** X☐ **No**
Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843
2844	2851	2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511											

Layers: X **Single-phase** ☐ **Multi-phase**

Container Type:	X	**Drum**	X	**Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55		330		____		____

Frequency: ☐ **Weekly** X☐ **Monthly** ☐ **Quarterly** ☐ **Yearly** ☐ **One Time**
Number of Units (containers): 1-105 **Other:** ____

EPAHO108001128

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ **Yes** X☐ **No**

If "Yes", Is it: ☐ **D001 Ignitable** ☐ **D002 Corrosive** ☐ **D003 Reactive**

Characteristic for Toxic Metals: ☐ **D004** ☐ **D005** ☐ **D006** ☐ **D007** ☐ **D008** ☐ **D009** ☐ **D010** ☐ **D011**

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) NA

Texas Waste Code Number: Recycle

Proper US DOT Shipping Name: ~~Recyclable RCRA MT Containers~~ Non-RCRA, non-DOT regulated material

Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	NA	NAmg/l	NAmg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
RCRA Empty Totes	0-100	%
RCRA Empty Drums	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None, ~~Generator's Knowledge~~

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on X☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** 04-14-08

Printed Name/Title: No Signature Required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [illegible]	
Date: 4-14-08 Approved Rejected	
Approval Number: 2727	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES X☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001131

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001132

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$45/tote
$10/dm

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

None

4. **Special Testing Requirements:**

NA

5. **Treatment and Handling Protocol:**

Recycle Plastic and Metal

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108001133

7. **Tests for Product Recovered/Recycled (if applicable):**

Na

8. **Management for Product Recovered/Recycled (if applicable):**

Na

2700 Enterprise Jet Center
2700

EPAHO108001135

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date **4/8/2008**

Dear **Ron Kohler**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2700

Expiration Date 4/8/2010

Producer: Enterprise Jet Center
Address: 8620 W. Monroe
Houston, TX 77061

Material / Product Information

Name of Material / Product Aviation fuel (Avgas)
Container Type: 10K gal underground storage tan

Detailed Description of Process Generating or Producing the Material / Product:
Avgas storage tank bottoms

Color: varies **Odor:** hydrocabon **pH:** 4-10
Physical State:
Incompatibilities: oxidizers, ignition sources
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Please include MSDS

OK

4B

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Enterprise Jet Center
Address: 8620 W. Monroe
City, State, Zip: Houston TX 77061
Contact: Guillermo Torrubiartes Title: Line Svc. Mgr.
Phone No: 713-358-9100 Fax No:
24/hr Phone:
U.S. EPA I.D. No: TXCESQ
State I.D. CESQ SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Select Environmental
Address: 223 Meaty Dr.
City, State, Zip: Hbw. TX. 77024
Contact: Ken White Title: Sales
Phone No: 281-960-3467 Fax No: 713-255-1761

SECTION 3: General Description of the Waste

Name of Waste: Aviation Fuel - (Avgas)
Detailed Description of Process Generating Waste: Avgas storage tank bottoms

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: Hydrocarbon

Specific Gravity (water=1): .9 Density: 7 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain) 10,000 gal. underground storage tank
Container Size:

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): Approx. 1,000 gal. Other:
Texas State Waste Code No: Recycle Fuel, Aviation, Turbine Engine (Jet A), JP-8
Proper U.S. DOT Shipping Name: ~~Non RCRA/Non DOT Regulated Material~~
Class: ~~NA~~ 3 UN/NA: ~~NA~~ 1863 PG: ~~NA~~ III RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	4-10	NA mg/l	NA mg/l	0-2 %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENT/SUBSTANCE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Argas		100%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

— std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

— oxidizers, ignition sources

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

X **Authorized Signature:** Kevin White **Date:** 4-3-08

Printed Name/Title: KW for Guillermo Turribiates

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rebecca Clarque **Additional Information:**

Date: 4-8-08 **Approved** **Rejected**

Approval Number: 2700

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$0.10/gal + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

standard according to shared drive gen. rate sheet.

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Phase separate any water if present and treat & discharge

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):** Test for blendability w/Black oil.

Blend w/ Black oil or light ends depending on Sample compatibility

8. **Management for Product Recovered/Recycled (if applicable);**

18" in bottom of 20,000 gal tank

ConocoPhillips

Aviation Gasoline, 100 LL

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Aviation Gasoline, 100 LL
MSDS Code:	001769
Synonyms:	100 Low Lead Gasoline 100 Octane Aviation ASTM 100/130 Aviation Gasoline Avgas Avgas 100
Intended Use:	Fuel
Responsible Party:	ConocoPhillips 600 N. Dairy Ashford Houston, Texas 77079-1175
Customer Service:	800-640-1956
Technical Information:	800-255-9556
MSDS Information:	Phone: 800-762-0942 Email: MSDS@conocophillips.com Internet: http://w3.conocophillips.com/NetMSDS/
Emergency Telephone Numbers:	Chemtrec: 800-424-9300 (24 Hours) California Poison Control System: 800-356-3219

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!
Extremely Flammable Liquid and Vapor
Skin Irritant
Aspiration Hazard

NFPA

Appearance: Blue
Physical Form: Liquid
Odor: Gasoline-like

Potential Health Effects
Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Skin irritant. Contact may cause redness, itching, a burning sensation, and skin damage. Prolonged or repeated contact can defat the skin, causing drying and cracking of the skin, and possibly dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): Low to moderate degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include nausea, vomiting, flushing, blurred vision, tremors, signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue), unconsciousness, convulsions, death.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders. Exposure to high concentrations of this material may increase the sensitivity of the heart to certain drugs. Persons with pre-existing heart disorders may be more susceptible to this effect (see Section 4 - Note to Physicians).

See Section 11 for additional Toxicity Information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	Concentration (wt %)
Gasoline	NONE	>99.8
Benzene	71-43-2	<0.5
Tetraethyl Lead	78-00-2	<0.13

4. FIRST AID MEASURES

Eye: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops, seek medical attention. Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

Inhalation (Breathing): If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

Notes to Physician: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

Federal regulations (29 CFR 1910.1028) specify medical surveillance programs for certain exposures to benzene above the action level or PEL (specified in Section (i)(1)(i) of the Standard). In addition, employees exposed in an emergency situation shall, as described in Section (i)(4)(i), provide a urine sample at the end of the shift for measurement of urine phenol.

5. FIRE-FIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1 **Flammability:** 3 **Instability:** 0 (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

Unusual Fire & Explosion Hazards: This material is extremely flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties Including Flash Point and Flammable (Explosive) Limits

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Extremely flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Spill precautions: Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

Environmental precautions: Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Methods for cleaning up: Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8).

Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH	OSHA	Other:
Gasoline	300 ppm TWA 890 mg/m³ TWA 500 ppm STEL 1480 mg/m³ STEL	---	---
Benzene	TWA: 0.5 ppm STEL: 2.5 ppm Skin	Ceiling: 25 ppm STEL: 5 ppm TWA: 1 ppm TWA: 10 ppm	---
Tetraethyl Lead	TWA: 0.1 mg/m³ Skin	Skin TWA: 0.075 mg/m³	---

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

Contains benzene. If exposure concentrations exceed the 0.5 ppm action level, OSHA requirements for personal protective equipment, exposure monitoring, and training may apply (29CFR1910.1028). Also see Section 4.

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Skin: The use of nitrile gloves impervious to the specific material handled with Silver Shield/4H® laminate or equivalent as an under glove due to the tetraethyl lead containing gasoline is advised to prevent skin contact, possible irritation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, nitrile apron and/or arm covers may be necessary.

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an oxygen-deficient atmosphere, uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

If benzene values equal or exceed applicable exposure limits the use of respiratory protection should comply with the requirements in OSHA 29 CFR 1910.1028-Benzene.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).
Data represent typical values and are not intended to be specifications.

Appearance:	Blue
Physical Form:	Liquid
Odor:	Gasoline-like
Odor Threshold:	No data
pH:	Not applicable

Vapor Pressure:	5.5-7.0 psia (Reid VP) @ 100°F
Vapor Density (air=1):	>1
Boiling Point/Range:	75-338°F / 24-170°C
Melting/Freezing Point:	<-72°F / <-58°C
Partition Coefficient (n-octanol/water) (Kow):	No data
Specific Gravity:	0.68-0.74 @ 60°F (15.6°C)
Bulk Density:	5.83 lbs/gal
Percent Volatile:	100%
Evaporation Rate (nBuAc=1):	>1
Flash Point:	<-35°F / <-37°C
Test Method:	(estimate)
LEL (vol % in air):	1.5
UEL (vol % in air):	7.6
Autoignition Temperature:	824°F / 440°C

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Extremely flammable liquid and vapor. Vapor can cause flash fire.

Conditions to Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): strong oxidizing agents such as acids, chlorine, dichromates, or permanganates can cause fire or explosion.

Hazardous Decomposition Products: Combustion can yield lead fumes, carbon, nitrogen and sulfur oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Chronic Data:

Gasoline

Carcinogenicity: Two year inhalation studies of wholly vaporized unleaded gasoline produced increased incidences of kidney tumors in male rats and liver tumors in female mice. Follow-up studies suggest that occurrence of the kidney tumors may be linked to alpha-2-u-globulin nephropathy, and most likely unique to the male rat. Epidemiology data collected from a study of more than 18,000 petroleum marketing and distribution workers showed no increased risk of leukemia, multiple myeloma, or kidney cancer from gasoline exposure. Unleaded gasoline has been identified as a possible carcinogen by IARC. Because solvent extracts of gasoline exhaust particulates caused skin cancer in laboratory animals, IARC has categorized gasoline engine exhaust as a possible human cancer hazard.

Target Organs: A two year inhalation study of wholly vaporized unleaded gasoline produced nephropathy in male rats, characterized by the accumulation of alpha-2-u- globulin in epithelial cells of the proximal tubules, and necrosis and hyperplasia of surrounding cells. Follow-up studies suggest that these changes are unique to the male rat.

Reproductive: No evidence of developmental toxicity was found in pregnant laboratory animals (rats and mice) exposed to up to 9,000 ppm vapor of unleaded gasoline via inhalation.

Xylenes

Target Organs: Rats exposed to 800, 1000 or 1200 ppm 14 hours daily for 6 weeks demonstrated high frequency hearing loss. Another study in rats exposed to 1800 ppm 8 hours daily for 5 days demonstrated middle frequency hearing loss.

Reproductive: Both mixed xylenes and the individual isomers produced limited evidence of developmental toxicity in laboratory animals. Inhalation and oral administration of xylene resulted in decreased fetal weight, increased incidences of delayed ossification, skeletal variations and resorptions.

Toluene

Target Organs: Epidemiology studies suggest that chronic occupational overexposure to toluene may damage color vision. Subchronic and chronic inhalation studies with toluene produced kidney and liver damage, hearing loss and central nervous system (brain) damage in laboratory animals. Intentional misuse by deliberate inhalation of high concentrations of toluene has been shown to cause liver, kidney, and central nervous system damage, including hearing loss and visual disturbances.

Reproductive: Exposure to toluene during pregnancy has demonstrated limited evidence of developmental toxicity in laboratory animals. The effects seen include decreased fetal body weight and increased skeletal variations in both inhalation and oral studies.

Ethyl Benzene

Carcinogenicity: Rats and mice exposed to 0, 75, 250, or 750 ppm ethyl benzene in a two year inhalation study demonstrated limited evidence of kidney, liver, and lung cancer. Ethyl benzene has been listed as a possible human carcinogen by IARC. Ethyl benzene has not been listed as a carcinogen by NTP, or OSHA.

n-Hexane

Target Organs: Excessive exposure to n-hexane can result in peripheral neuropathies. The initial symptoms are symmetrical sensory numbness and paresthesias of distal portions of the extremities. Motor weakness is typically observed in muscles of the toes and fingers but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. The neurotoxic properties of n-hexane are potentiated by exposure to methyl ethyl ketone and methyl isobutyl ketone.

Reproductive: Prolonged exposure to high concentrations of n-hexane (>1,000 ppm) has resulted in decreased sperm count and degenerative changes in the testes of rats but not those of mice.

Benzene

Carcinogenicity: Benzene is known to cause cancer of the blood-forming organs in humans, including acute myelogenous leukemia. It has been identified as a human carcinogen by NTP, IARC and OSHA.

Target Organs: Prolonged or repeated exposures to benzene vapors can cause damage to the blood and blood forming organs, including disorders like leukopenia, thrombocytopenia, and aplastic anemia.

Reproductive: Exposure to benzene during pregnancy demonstrated limited evidence of developmental toxicity in laboratory animals. The effects seen include decreased body weight and increased skeletal variations in rodents. Alterations in hematopoeisis have been observed in the fetuses and offspring of pregnant mice.

Mutagenic Effects: Benzene exposure has resulted in chromosomal aberrations in human lymphocytes and animal bone marrow cells, and DNA damage in mammalian cells in vitro.

Tetraethyl Lead

Carcinogenicity: While inorganic lead compounds have caused cancer in laboratory animals, organic lead compounds have not been identified as a carcinogen by NTP, IARC or OSHA.

Acute Data:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline	18.75 ml/kg. (Rat)	>5 ml/kg (Rabbit)	300g/m^3/5M (rat, mouse, g.pig)
Benzene	930 mg/kg (Rat)	> 9400 mg/kg (Rabbit)	10000 ppm/7hr. (Rat)

12. ECOLOGICAL INFORMATION

The individual hydrocarbon components of this material are differentially soluble in water with aromatic hydrocarbons tending to be more water soluble than aliphatic hydrocarbons. If spilled, the more volatile components will evaporate rapidly. Factors such as local environmetnal conditions (temperature, wind, soil type, mixing or wave action in water, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, contribute to the weathering of spilled material. Because of their differential solubility, the occurrence of hydrocarbons in groundwater will be at different proportions than the parent material.

The potential for bioaccumulation and/or long term persistence of these materials in the environment is low to non-existent. In laboratory soil column experiments, the half-time of unleaded gasoline was reported as 1.2 to 2.7 days in sand, loam or clay soils. Microorganisms prsent in sediments and in the water are capable of degrading gasoline and naphtha containing hydrocarbons. Simpler hydrocarbons are more readily degraded than complex molecules. Adaption of bacteria in gasoline-contaminated groundwater to the soluble constituents has been reported.

In general, naphtha streams exhibit some short-term toxicity to freshwater and marine organisms, especially under closed vessel or flow-through exposure conditions in the laboratory. The components most likely causing toxicity are also highly volatile and can be readily biodegraded by microorganisms.

13. DISPOSAL CONSIDERATIONS

13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste. However, it would likely be identified as a federally regulated RCRA hazardous waste for the following characteristic(s) shown below. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

Container contents should be completely used and containers should be emptied prior to discard. Container residues and rinseates could be considered to be hazardous wastes.

EPA Waste Number(s)
- D001 - Ignitability characteristic
- D018 - Toxicity characteristic (Benzene)
- D008 - Toxicity characteristic (Lead)

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Shipping Description:	Gasoline, 3, UN1203, II
Non-Bulk Package Marking:	Gasoline, UN1203
Non-Bulk Package Labeling:	Flammable liquid
Bulk Package/Placard Marking:	Flammable/1203
Packaging - References:	49 CFR 173.150; 173.202; 173.242
Emergency Response Guide:	128

International Maritime Dangerous Goods (IMDG)

Shipping Description:	UN1203, Gasoline, 3, II , (-37° C cc)
Non-Bulk Package Marking:	Gasoline, UN 1203
Labels:	Flammable liquid
Placards/Marking (Bulk):	Flammable/1203
Packaging - Non-Bulk:	P001
EMS:	F-E, S-E

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #:	UN1203
Proper Shipping Name:	Gasoline
Hazard Class/Division:	3
Packing Group:	II
Non-Bulk Package Marking:	Gasoline, UN1203
Labels:	Flammable liquid
ERG Code:	3H

	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	Y305	305	307
Max. Net Qty. Per Package:	1 L	5 L	60 L

15. REGULATORY INFORMATION

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):
This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:

Component	TPQ	EPCRA RQ
Tetraethyl Lead	100 lb	10 lb

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health:	Yes
Chronic Health:	Yes
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

CERCLA/SARA - Section 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Component	Concentration (wt %)	de minimis
Xylenes	1-15	1.0%
Toluene	1-10	1.0%
Ethyl Benzene	1-5	0.1%
1,2,4-Trimethyl Benzene	1-5	1.0%
n-Hexane	<4	1.0%
Cyclohexane	<3	1.0%
Benzene	<0.5	0.1%

EPA (CERCLA) Reportable Quantity (in pounds):
EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

California Proposition 65:
Warning: This material may contain detectable quantities of the following chemicals, known to the State of California to cause cancer, birth defects or other reproductive harm, and which may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component	Type of Toxicity
Unleaded Gasoline (Wholly Vaporized)	Cancer
Ethylene Dibromide	Cancer Developmental Toxicant Male Reproductive Toxicant
Toluene	Developmental Toxicant
Benzene	Cancer Developmental Toxicant Male Reproductive Toxicant
Lead / Lead Compounds	Cancer Developmental Toxicant Female Reproductive Toxicant Male Reproductive Toxicant

Canadian Regulations:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B2 - Flammable Liquids
D2A - Very Toxic Material

National Chemical Inventories:
All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.
All components are listed on the Canadian DSL.

U.S. Export Control Classification Number: EAR99

16. OTHER INFORMATION

Issue Date:	23-May-2007
Status:	Final
Previous Issue Date:	17-Apr-2007
Product Code:	1014050

16. OTHER INFORMATION

Revised Sections or Basis for Revision: Health Hazard (Section 2)
Fire Fighting information (Section 5)

MSDS Code: 001769

MSDS Legend:
ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service Registry; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer of Expressed and Implied Warranties:
The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Enterprise 2701

2701

EPAHO108001152

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/8/2008**

Dear **Wesley Heefner**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2701

Expiration Date 4/8/2010

Generator: Enterprise Products Operating LP/Station
Address: 803 County Road 407
Bay City, TX 77414

Waste Information

Name of Waste: Oily rags, pads
TCEQ Waste Code #: Recycle
Container Type: sac/tote
Detailed Description of Process Generating Waste:
Used to contain leaks from combustion generators and pumps
Color: brown/white/black **Odor:** oil like **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

BRP OK

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Enterprise Products Operating LP/Station 809		
Address:	803 County Road 407		
City, State, Zip:	Bay City, TX 77414		
Contact:	Jerry Trevino	**Title:**	Operation Supervisor
Phone No:	979-245-7522 Ext. 2024	**Fax No:**	979-244-5888
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No: TX	CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating LP Station 812 (Enterprise Products Manvel)		
Address:	9315 Uzzell Road		
City, State, Zip:	Manvel, TX 77578		
Contact:	Kathleen Ballinger	**Title:**	Accounts Payable
Phone No:	281-331-4693	**Fax No:**	281-331-0672

SECTION 3: General Description of the Waste

Name of Waste: Oily Rags, pads
Detailed Description of Process Generating Waste: used to contain leaks from combustion generators and pumps

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: brown, white, black **Odor:** oil like

Specific Gravity (water=1): 1.3 **Density:** 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☒ Other (explain)
Container Size:	55 gal	____	____	Sack in tote

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
none	NA	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENT/TARGET	Concentration	Units
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Oily Rags and Pads	90-100	%
Trash	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Wesley E. Heether **Date:** 3/31/08

Printed Name/Title: Wesley E. Heether / Field Env. Engr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thomas

Date: 4-8-08 Approved Rejected

Approval Number: 2701

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001156

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001157

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

45.00/DM 100.00/yd

Trans 280.00 + FSC

2. **Contamination Limits (maximum limit before surcharges apply):**

NA

3. **Surcharge Pricing:**

NA

4. **Special Testing Requirements:**

NA Must not contain any free liquids.

5. **Treatment and Handling Protocol:**

Recycle Bags

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO108001158

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

NA

8. **Management for Product Recovered/Recycled (if applicable):**

NA

2702 Delta Chem
2702

EPAHO108001160

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/9/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2702

Expiration Date 4/9/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Amine rags and debris
TCEQ Waste Code #: 00154891
Container Type:
Detailed Description of Process Generating Waste:
Rags, PPE, and debris from drum packaging facility
Color: varies **Odor:** mild **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Cannot be burning OK

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Amine Rags & Debris
Detailed Description of Process Generating Waste: Rags, PPE, & Debris from Drum Packaging facility

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** mild

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55-gal

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 40 **Other:** ____
Texas State Waste Code No: 00154891

Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material

Class: na **UN/NA:** na **PG:** na **RQ:** ns

EPAHO108001162

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
~~>140~~ 200	neutral	0 mg/l	0mg/l	~~≤2%~~ 100

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Rags, PPE, Debris	98-100	%
		%
		%
		%
Polyoxypropylene amine	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Menard **Date:** 4/9/04

Printed Name/Title: Tim Menard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Prabhat Bhargava

Date: 4-9-08 Approved Rejected

Approval Number: 2702

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO108001164

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO108001165

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65/drum + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No free liquids, cannot be fuming.

3. **Surcharge Pricing:**

If free-liquids (non-conforming), requires stabilization and special handling ($50/drum)

4. **Special Testing Requirements:**

the received material cannot be fuming.

5. **Treatment and Handling Protocol:**

Class I Bulk, cannot process fuming waste material into a bulk box.

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

MATERIAL SAFETY DATA SHEET

Product name:	**CS 500 EP Polyurea Joint Sealant**
Description:	Part A
Supplier:	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Polyoxypropylenediamine	09046-10-0	NE	NE	NE
Hexamethylene diisocyanate polymer	28182-81-2	NE	NE	NE
Propylene carbonate	00108-32-7	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. **STEL** = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable.

PHYSICAL DATA

Appearance:	Colorless liquid	**Odor:**	Slightly musty
Vapor Density: (air = 1)	Not determined	**Vapor Pressure:**	Not determined
Boiling Point:	Not determined	**VOC Content:**	Not determined
Evaporation Rate:	Not applicable	**Solubility in Water:**	Insoluble
Specific Gravity:	1.02	**pH:**	Slightly alkaline

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F PMCC	**Flammable Limits:**	Not applicable

Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam, Water (in large quantities only)
Special Fire Fighting Procedures:	None known. A self-contained breathing apparatus should be used when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	Aliphatic isocyanates slowly react with water to liberate CO_2. Do not allow water to contaminate product. Use water only in large quantities.

REACTIVITY DATA

Stability:	Stable.
Hazardous Polymerization:	May occur on contact with incompatible chemicals or temperatures above 400° F.
Incompatibility:	Strong bases, amines, and alcohols. Reacts slowly with water to release CO_2.
Hazardous Decomposition Products:	Thermal decomposition can yield CO, CO_2, NO_X, ammonia, some aldehydes and/or ketones.
Conditions to Avoid:	Exposure to excessive heat and storage above 95°F will shorten product shelf life.

HEALTH HAZARD DATA

Known Hazards:	Can cause eye, skin and respiratory irritation. Sensitizer.
Routes of Exposure:	Dermal, inhalation.
Signs and Symptoms of Exposure:	**Eyes:** Irritation. Corneal injury is not expected unless symptoms go untreated. **Skin:** Can cause sensitization (itching, redness, swelling, etc.) with some individuals. **Inhalation:** Sensitization (i.e. an asthma-like response) is possible with some individuals. **Ingestion:** Gastro-intestinal irritation and nausea .
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

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EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Immediately flush with plenty of water. Refer individual to a physician or ophthalmologist for follow-up.
Skin:	Wash with soap and water. Launder contaminated clothing before reuse.
Inhalation:	Move victim to fresh air. Call a physician if symptoms persist. If sensitization occurs, further use or contact with the product should not be allowed.
Ingestion:	If conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Call a physician immediately.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Chemical goggles recommended when handling / mixing large quantities (i.e. 1 gal. or more). Safety glasses with side-shields are suitable for the 600 ml dispensers.
Skin Protection:	Gloves (neoprene, nitrile-butadiene rubber or butyl rubber) recommended when handling / mixing large quantities (i.e. 1 gal. or more). Cotton gloves are suitable when using the 600 ml dispensers.
Respiratory Protection:	Use a NIOSH-approved organic vapor cartridge respirator when air movement is inadequate to control vapor build-up. Never enter a confined space without an appropriate air-supplied respirator (e.g. SCBA or airline with escape pack).

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Avoid contact with eyes, skin and clothing. If mixed material is allowed to cure on the skin, it is difficult to remove. Avoid prolonged inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Store in a cool dry place out of direct rays of the sun. Recommended storage temperature range is between 55° and 95° F. Shelf life is 6 months when stored at 77° F. For industrial use only. Keep out of reach of children.
Spill Procedures:	Cover with an absorbent material and place in a salvage container for proper disposal. If possible, mix parts A and B and allow product to cure (harden).

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes:	Health 3, Flammability 1, Reactivity 1, PPE B (Gloves, Chemical Goggles)
DOT Shipping Name:	Part A is not regulated. Part B is regulated (refer to page 4).
IATA / ICAO Shipping Name:	Part A is not regulated. Part B is regulated (refer to page 4).
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product does not contain any toxic chemicals which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste.
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

EPAHO108001169

DESCRIPTION: Part B (Amine hardener for CS 500 EP polyurea sealant).

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Polyoxypropylenediamine	09046-10-0	NE	NE	NE
2,4-Diethyltoluenediamine	02095-02-5	NE	NE	NE
2,6-Diethyltoluenediamine	02095-01-4	NE	NE	NE
Titanium dioxide	13463-67-7	NA	NA	NE
Carbon (dispersion)	01333-86-4	NA	NA	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. **STEL** = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable.

PHYSICAL DATA

Appearance:	Gray viscous liquid	**Odor:**	Amine odor
Boiling Point:	Not determined	**Vapor Pressure:**	Not determined
Vapor Density:	Not determined	**VOC Content:**	Not determined
Evaporation Rate:	Not determined	**Solubility in Water:**	Very low
Specific Gravity:	1.05	**pH:**	Approx. 9 - 10

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F PMCC	**Flammable Limits:**	Not applicable

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Spray (for large fires – refer to page 1)

Special Fire Fighting Procedures: None known. A self-contained breathing apparatus should be used when fighting fires involving chemicals.

Unusual Fire and Explosion Hazards: None known. Thermal decomposition products can be formed. See below.

REACTIVITY DATA

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibility: Acids and oxidizing materials.

Hazardous Decomposition Products: Thermal decomposition can yield ammonia, oxides of nitrogen, some aldehydes and/or ketones.

Conditions to Avoid: Exposure to excessive heat and storage above 95°F will shorten product shelf life.

HEALTH HAZARD DATA

Known Hazards: Corrosive

Routes of Exposure: Dermal. Inhalation.

Signs and Symptoms of Exposure: **Eyes:** Irritation, redness, swelling. Possible eye burns. **Skin:** Can cause irritation and possibly skin burns. **Inhalation:** Vapors can cause irritation to the nose and throat. **Ingestion:** Nausea, abdominal discomfort and/or diarrhea may occur.

Carcinogenicity: Carbon black has been rated by IARC as a Group 2B carcinogen based upon inhalation of respirable (< 10 μm) carbon black in the production, rubber, paint and printing industries. The overall rating of 2B indicates that there was inadequate evidence for carcinogenicity in humans and adequate evidence in lab animals. This product does not pose a dust hazard; therefore, the risk of cancer due to inhalation of carbon black is not relevant.

Medical Conditions Aggravated by Exposure: Eye, skin, and respiratory conditions.

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EMERGENCY AND FIRST AID PROCEDURES

Eyes:	**Immediately** flush with plenty of water for at least 15 minutes. Call a physician.
Skin:	Wash immediately with soap and water. Launder contaminated clothing.
Inhalation:	Move victim to fresh air. Give oxygen and/or artificial respiration if needed. Call a physician if symptoms persist.
Ingestion:	Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Call a physician immediately.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements). See page 2.
Eye Protection:	Chemical goggles recommended when handling / mixing large quantities (i.e. 1 gal. or more). Safety glasses with side-shields are suitable for the 600 ml dispensers.
Skin Protection:	Gloves (neoprene, nitrile-butadiene rubber or butyl rubber) recommended when handling / mixing large quantities (i.e. 1 gal. or more). Cotton gloves are suitable when using the 600 ml dispensers.
Respiratory Protection:	Use a NIOSH-approved organic vapor cartridge respirator when air movement is inadequate to control vapor build-up. Never enter a confined space without an appropriate air-supplied respirator (e.g. SCBA or airline with escape pack).

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Avoid contact with eyes, skin and clothing. If mixed material is allowed to cure on the skin, it is difficult to remove. Avoid prolonged inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Store in a cool dry place out of direct rays of the sun. Recommended storage temperature range is between 55° and 95° F. Shelf life is 6 months when stored at 77° F.
Spill Procedures:	Cover with an absorbent material and place in a salvage container for proper disposal. If possible, mix parts A and B and allow product to cure (harden).

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes:	Health 3, Flammability 1, Reactivity 0, PPE B (Gloves, Chemical Goggles)
DOT Shipping Name:	Consumer Commodity, ORM-D
IATA / ICAO Shipping Name:	Amines, liquid corrosive, n.o.s., (contains polyoxypropylene diamine), Class 8, UN 2735, PG III
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product does not contain any toxic chemicals which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste.
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service:	1 800 879 8000	**Technical Service:**	1 800 879 8000
Health / Safety:	1 800 879 6000 Jerry Metcalf (x6704)		
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.

EPAHO108001171

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/9/2008**

Dear **Tommy Boyette**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2703

Expiration Date 4/9/2010

Generator: Delta Chemical
Address: 334 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Oily rags and debris
TCEQ Waste Code #: 00154891
Container Type:
Detailed Description of Process Generating Waste:
Rags, PPE, and debris from drum packaging facility
Color: varies **Odor:** mild **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

JAP OK

Please check waste code ~~and attach MSD sheets~~ ~~Thanks Heather~~

JB

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Delta Chemical Services		
Address:	334 Tidal Rd		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	**Title:**	Safety, Health & Environmental
Phone No:	(281) 680-4113/713-819-3172 (cell)	**Fax No:**	281.479.9842
24/hr Phone:	713.676.1460/713-819-3172 (cell)		
U.S. EPA I.D. No:	TXR000029199		
State I.D.	85855	**SIC Code:**	5169

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Oily Rags & Debris
Detailed Description of Process Generating Waste: Rags, PPE, & Debris from Drum Packaging facility

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** mild

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Does this material contain any total phenolic compounds? ☐ **Yes** ☒ **No**

Does this material contain any para substituted phenolic compounds? ☐ **Yes** ☒ **No**

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: 55-gal ____ ____ ____

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 40 **Other:** ____
Texas State Waste Code No: 00154891
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material
Class: na **UN/NA:** na **PG:** na **RQ:** ns

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Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>~~140~~ 200	neutral	0 mg/l	0mg/l	~~<2%~~ 100

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Rags. PPE, Debris	98-100	%
		%
		%
Lube oil & additives	0-2	%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all docum[illegible] notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: x
TCLP Volatiles: x
TCLP Semi-Volatiles: x
Reactivity: x
Corrosivity: x
Ignitability: x

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tim Menard **Date:** 4/7/08

Printed Name/Title: Tim Menard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature]	
Date: 4-9-08 Approved Rejected	
Approval Number: 2703	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$65 /drum + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

No free liquids present.

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

Must be no free liquids present

5. **Treatment and Handling Protocol:**

Class 1 Bulk

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

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