REDACTED VERSION

SolTex - VerTex Processing 2334
2334

EPAHO10300066

9586104

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Ellie Macnair**

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 # 2334

Generator: Soltex-Vertex Processing
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Recyclable hydrocarbons
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
By-product from the manufacturing of Thixocal 7800
Color: brown **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: oxidizers, chromic 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

fb

SECTION 1: Generator Information

Company:	Soltex		
Address:	6655 W. Bay Rd		
City, State, Zip:	Baytown TX 77520		
Contact:	Rod Eggen	Title:	
Phone No:	713-540-9075	Fax No:	
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	n/a

SECTION 2: Billing Information – ☒ Same as Above

Company:	Soltex		
Address:	3707 FM 1960 W. Suite 560		
City, State, Zip:	Houston, TX 77068		
Contact:	Ellie ~~MacNair~~ MacNair	Title:	Manager, Supply & Distribution
Phone No:	281-587-0900	Fax No:	281-587-0209

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Hydrocarbon
Detailed Description of Process Generating Waste: By-product from the manufacturing of Thixocal 7800

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

Color: Brown Odor: Hydrocarbon

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

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☒ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ 300gal 3-6Kgal ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☑ Yearly
Number of Units (containers): 63 totes Other: 3 tanks
Texas State Waste Code No: ~~CESQ~~ RECYCLE
Proper U.S. DOT Shipping Name: Non RCRA/ Non DOT ~~reg wastewater~~ Material
Class: ~~n/a~~ 3 UN/NA: NA1993 PG: III RQ: ____

Flash Point 105 F	pH n/a	Reactive Sulfides n/a mg/l	Reactive Cyanides n/a mg/l	Solids 0-1%
Oil&Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel NA mg/l

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SECTION 4: Physical and Chemical Data

Components - Analysis	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Recyclable Hydrocarbon	1-60	%
Water	1-50	%
Mineral Sprits	1-50	%
Lime	0-5	%
Methanol	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.
MSDS thixocal, Mineral Spirits

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
— Oxidizers, chromic 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: X Eleanor S. Macnair **Date:** 9/12/07

Printed Name/Title: Eleanor S. Macnair, Manager Supply & Distribution

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rebecca Thayer

Date: 9-12-07 Approved Rejected

Approval Number: 2334

Process Facility Information: Remove oil & mix w/ light endo. treat water per norm

Price: $0.10/gal in bulk (up to 1% Solids)
$95/tote
trans @ $70/hr + FSC

REC

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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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OF TEXAS, INC.

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www.soltexinc.com

ThixoCal 7600

February 16, 2007

1. Identification of substance and company.

Trade name: ThixoCal™ 7600

Chemical name: modified oil soluble calcium sulfonate, overbased

Company: Soltex, Inc. (Synthetic Oils & Lubricants of Texas, Inc.)
3707 FM 1960 West, Suite 560
Houston, TX 77068
USA

Phone number: 281-587-0900 or 800-275-8580

Emergency phone: 800-424-9300 (CHEMTREC - in USA and Canada)

2. Composition.

Chemical	CAS RN
One or More Oil Soluble Calcium Sulfonates	Trade Secrets
Mineral Spirits	64742-88-7
Calcium Carbonate	471-34-1

3. Hazards Information.

Hazardous Ingredients:
Mineral Spirits (hydrotreated light petroleum distillate) CAS RN: 64742-88-7

Summary of Risks:
Mineral Spirits: Millions of industrial workers in chemical process and allied industries have been exposed to mineral spirits with minimal serious health effects, aside from the drying, defatting (stripping away of your skin's protective fats and emolients), and irritant skin effects. However, overexposure can depress the central nervous system (CNS) with these symptoms: headache, dizziness, drowsiness, intoxication with euphoria, and possibly unconsciousness. Prolonged or repeated skin contact can cause dermatitis due to this mineral spirits' defatting effect or by sensitization.

EU Risk phrases

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful may cause lung damage if swallowed
	R38	Irritating to skin

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R36	Irritating to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Canadian WHIMS:
Class B Division 3 Combustible Liquid

HMIS and NFPA HAZARD INDEX		HMIS and NFPA RATINGS	
Hazardous Materials Identification System	4 - Severe 3 - Serious 2 - Moderate 1 - Slight 0 - Minimal	Health Flammability Reactivity	1 2 0

4. First aid measures.

Immediate treatment:

Eye contact:
May cause eye irritation. Flush with large amounts of water for at least 15 minutes. Call a physician.

Skin contact:
Wash skin thoroughly with soap and water after handling. Prolonged or repeated contact may cause dermatitis (skin irritation).

If hot material contacts skin, immediately cool before attempting removal. Cool with water or ice. Apply topical dressing. Severe blistered burns should be treated by a physician.

Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Ingestion:
Contact a physician.

NOTE TO PHYSICIANS

Routes of entry: Eyes, skin, ingestion, inhalation of mist.
Target organs: Eyes, skin, respiratory system., central nervous system
Mineral Spirits: Aspiration of even a few milliliters of mineral spirits can be fatal! The resulting diffused chemical irritation of the lungs can progress to fatal pulmonary edema after aspiring liquid mineral spirits. To prevent their aspiration of freshly vomited solvent, carefully monitor persons who swallow mineral spirits. Consider intubation in treating any significant ingestion.

5. Fire fighting measures.

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Special hazards or procedures:

This product contains Mineral Spirits (Flash point (ASTM D-92): 105°F (41°C)). It is not exceedingly volatile, but will easily burn. Vapors may travel to an ignition source and flash back. Oxides of carbon (CO and CO_2) and sulfur (SO_2) will be given off while burning. This product will float upon water, so water spray is not a suitable extinguishing agent as it may cause fire to spread. See Extinguishing Media.

Protective equipment:
As in any fire, firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media:
Dry chemical, water fog, CO_2, foam, or sand/earth. Closed containers may be cooled with water.

6. Accidental release measures.

Procedures for spill clean-up:
Shut off leak and dike up large spills. Eliminate heat and ignition sources, provide optimum explosion-proof ventilation. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose according to regulatory requirements.

7. Handling and storage.

Handling:
Keep drums tightly closed to prevent contamination. Avoid skin and eye contact. Wear recommended personal protection equipment. Discard or wash contaminated clothing before reuse.
ATTENTION: Never use pressure to empty drums.

Storage:
Maximum storage temperature: below flash point of 105°F (41°C).

8. Exposure control/personal protection.

Ventilation required:
Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present. Maintain solvent below exposure limits in Section 11. Respiratory protection is required when levels exceed limits.

Respiratory protection:
None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas or when levels exceed limits. If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m^3 (OSHA, ACGIH) for a mineral oil mist. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

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Skin protection:
Rubber or plastic solvent resistant gloves and aprons.

Eye protection:
Wear chemical safety goggles and/or a face shield. Contact lenses should not be worn.

9. **Physical and chemical properties.**	**Typical Values**
Physical state at 25 °C:	Viscous liquid
Color:	Tan
Odor:	Slight, kerosene like
Changes in physical state at 1 bar:	No data available/none expected
Vapor pressure at 20 °C (mm Hg):	>2, based upon solvent
Vapor density (air = 1):	>4, based upon solvent
Viscosity at 40 °C (SUS):	>100
Solubility in H_2O at 25 °C:	negligible
pH (1%):	No data available
Flash point (ASTM D-92):	105°F (41°C)
Autoignition temperature:	No data available
Flammability limits in air:	Lower: 0.7 Upper: 6, based upon solvent
Volatile (by weight %)	<50%

10. **Stability and reactivity.**

This product is stable and not subject to hazardous polymerization.

Hazardous decomposition products:

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Oxides of carbon (carbon monoxide carbon dioxide), oxides of hydrogen (water), oxides of sulfur (sulfur dioxide), and oxides of calcium are all formed from burning.

Incompatible materials:
Strong oxidizers such as hydrogen peroxide, oxidizing chlorine and bromine compounds (e.g. chlorine bleach), and chromic acid.

Conditions to avoid:
Oxidizing agents; skin and eye contact.

11. Toxicological information.

Acute toxicity:
May cause eye and skin irritation. The handling procedures and safety precautions in this MSDS should be followed to minimize employee exposure.

mineral oil mist: TWA/PEL of 5 mg/m^3 (OSHA, ACGIH)

mineral spirits: Irritation, redness of skin and eyes; narcotic effects like dizziness, slurred speech, or drunkenness. Ingestion may cause nausea, vomiting, diarrhea, and abdominal pain. After ingestion, the primary concern is aspiration into the lungs. Signs of aspiration pneumonitis include: fever, shortness of breath, increased rate of respiration, and rales (an abnormal rattling sound in the throat). Inhaling this material may cause arrhythmia.

mineral spirits:
OSHA PEL: TWA-air: 500 ppm, 2900 mg/m 3
ACGIH TLV, 1989-90: TLV-TWA: 100 ppm, 525 mg/m 3
NIOSH REL, 1987: 10-hr TWA: 350 mg/m 3 15-min Ceiling: 1800 mg/m 3
Toxicity Data†: Cat, inhalation, LC Lo : 10 g/m 3 /2.5 hr
† See NIOSH, *RTECS*, for additional data with references to irritative effects.

Chronic toxicity for mineral spirits:
None reported in humans.
Carcinogenicity: Neither the NTP, IARC, nor OSHA lists mineral spirits as a carcinogen.

12. Ecological information.

No data available.

13. Disposal considerations.

A hazardous waste (ignitable D001) if disposed of as is, by the definitions of the U.S. EPA. Dispose of properly complying with appropriate laws and regulations.

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14. Transportation information.

US DOT Ground:
Regulated for transport when shipped in bulk (greater than 118.9 gallons) containers:
Proper shipping Name Combustible Liquid, n.o.s. contains Mineral Spirits
Hazard Class 3 Combustible Liquid, PGIII
ID Number: NA1993
Or if shipped in any size container at temperatures greater than its' flash point (105°F):
Proper shipping Name: Elevated Temperature, Liquid, Flammable, n.o.s.
Hazard Class: 3
ID Number: UN3256, PGIII
US DOT Other Than Ground, Canadian TDG:
This product is not regulated when shipped in containers up to 454 liters. This product is classed as flammable liquid when shipped in containers over 454 liters and will require TDG documentation.
Proper shipping Name for regulated quantities:
Petroleum Products, n.o.s. contains Mineral Spirits
TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION:
CLASS: 3.3, UN1268, PGIII.

15. Regulatory information.

EU labeling:

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful, may cause lung damage if swallowed
	R36	Irritating to eyes
	R38	Irritating to skin
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S phrases :	2	Keep out of reach of children
	36/37/39	'wear suitable clothing protective /wear suitable gloves/wear eye/face protection'
	24/25	'avoid contact with skin/ avoid contact with eyes'
	26	'in case contact of with eyes rinse with plenty of water and seek medical advice'
	28 (soap and water)	'after contact with skin, wash immediately with plenty of "soap and water"'
	43 (never use water)	In case of fire, never use water
	EU labeling:	Continued
	61	Avoid release to the environment
	62	Do not induce vomiting: seek medical advice and show this label

Canadian WHIMS:
Class B Division 3 Combustible Liquid

US OSHA Designations:

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Mineral Spirits is listed as an Air Contaminant (29 CFR 1910.1000, Subpart Z)
EPA Hazardous Waste Number of D001 as per 40 CFR 261.21 "Characteristic of ignitability" " flash point less than 140 F"

Chemical Inventory Information:
All the components of this product are listed in the following chemical inventories: TSCA (United States) EINECS (European Union), ENCS (Japan), AICS (Australia), DSL (Canada).

16. Other information.

Comments: This product has not been tested in long term, chronic exposure, therefore, the handling procedures and safety precautions in the MSDS should be followed to minimize employee exposure.

Label Information for the United States:
CAUTION: Combustible. May cause skin and eye irritation. Do not swallow. Avoid eye and skin contact. Wash thoroughly after handling. Avoid contact with clothing. Wash clothing before reuse. Keep out of reach of children. Keep containers tightly closed when not in use. Avoid breathing mists or sprays of this product or its solutions.

EMERGENCY FIRST AID PROCEDURES

Eye contact:	Flush with large amounts of water for at least 15 minutes. Call a physician.
Skin contact:	Wash skin thoroughly with soap and water after handling. If hot material contacts skin, immediately cool before attempting removal. Cool with water or ice. Apply topical dressing. Severe blistered burns should be treated by a physician.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen and call a physician.
Ingestion:	Call a physician. Induce vomiting if victim is conscious. Never give anything by mouth to an unconscious person.

FOR INDUSTRIAL USE ONLY. SEE SAFETY DATA SHEET FOR DETAILED INFORMATION.
ATTENTION: Never use pressure to empty container, a drum is not a pressure vessel. When empty, drum may have vapor or product residue. Residual vapors may explode on ignition; do not puncture, drill, grind, or weld on or near this container.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. The information shall not be regarded as legally binding assurance of certain properties or suitability for a particular application.

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may irritate. Low order of toxicity.

INHALATION:
Low order of toxicity.
Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

INGESTION:
Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Minimal toxicity.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:
Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:
Flush with large amounts of water; use soap if available.

INHALATION:
Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:
If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT:	136 Deg F. METHOD: TCC ASTM D56
FLAMMABLE LIMITS:	NOTE: Not Available
AUTOIGNITION TEMP.:	NOTE: Not Available

GENERAL HAZARD

EPAHO103000079

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dispersants may be used in non-confined waters.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD

Yes, use proper bonding and/or grounding procedure.
Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1220 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

STORAGE TEMPERATURE Deg F:
Ambient

LOADING/UNLOADING TEMPERATURE Deg F:
Ambient

STORAGE/TRANSPORT PRESSURE mmHg:
Atmospheric

LOADING/UNLOADING VISCOSITY cSt: 1.9

STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials.
Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.
Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EPAHO103000080

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EXPOSURE CONTROLS

The use of mechanical dilution ventilation is recommended whenever this product is used in a contined space, is heated above ambient temperatures, or is agitated.

PERSONAL PROTECTION

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.
Where contact may occur, wear safety glasses with side shields.
Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY at Deg F:	0.77 at 68
VAPOR PRESSURE, mmHg at Deg F:	< 51.68 at 100
SOLUBILITY IN WATER, wt. % at Deg F:	Insoluble
VISCOSITY OF LIQUID, cSt at Deg F:	1.9 at 68
SP. GRAV. OF VAPOR, at 1 atm (Air=1):	5.81
FREEZING/MELTING POINT, Deg F:	-148
EVAPORATION RATE, n-Bu Acetate=1:	Less Than 0.1
BOILING POINT, Deg F:	356 to 424

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
Stable

HAZARDOUS POLYMERIZATION:
Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
Strong oxidizing agents, inorganic acids, halogenated compounds, halogens, molten sulfur.

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HAZARDOUS DECOMPOSITION PRODUCTS:
None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: Combustible liquid, N.O.S., (C12 olefins), Combustible liquid, NA 1993, PG II.

International shipping: Flammable liquid, N.O.S., (C12 olefins), 3, UN 1993, PG II (for all sizes of containers).

SECTION 15 REGULATORY INFORMATION

TSCA:

EPAHO103000082

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National Fire Protection Association (NFPA 704)
Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY
HEALTH	2	1	4 = Severe
FLAMMABILITY	2	2	3 = Serious
REACTIVITY	1	1	2 = Moderate
			1 = Slight
			0 = Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Revision Date: 04/07

This information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

EPAHO103000083

Mobley Industrial P~~2335~~
2335

EPAHO10300084

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

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 # 2335

Generator: Mobley Industrial Painters
Address: 1220 Miller Cutoff Road
LaPorte, TX 77316

Waste Information

Name of Waste: Diesel w/water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Regular maintenance of company vehicles
Color: brownish **Odor:** hydrocarbon **pH:** 7
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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Mobley Industrial Services
Address: 1220 Miller Cut Off Rd
City, State, Zip: La Porte, TX 77571
Contact: Ronnie Springer Title: HSE
Phone No: 281-470-9120 Fax No: 281-470-0426
24/hr Phone: 281-830-0717
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: CHG Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office Mgr
Phone No: 936-483-3606a Fax No: 936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: Diesel w/ water
Detailed Description of Process Generating Waste: Regular maintence of company vechiles

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

Color: Brownish Odor: hydrocarbon

Specific Gravity (water=1): 1 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): 10 Other:
Texas State Waste Code No: Recydable
Proper U.S. DOT Shipping Name: Recyclable Hydrocarbon / Water Mixture
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140°F	7	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
0 mg/l NR	0 mg/l NR	0 mg/l	0 mg/l	0 mg/l

EPAHO103000086

SECTION 4: Physical and Chemical Data

COMPONENT LABEL	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Diesel	75	%
Water	25	%

SECTION 5: Safety Related Data

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

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: ϕ
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:** 9/10/07

Printed Name/Title: Zac McNaughton - agent

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Romo

Date: 9-12-07 Approved Rejected

Approval Number: 2335

Additional Information: Recycle by Separation/Heat. Pump hydrocarbons w/ light Ends. Treat & discharge Water

$35/dm

REC

EPAHO103000087

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

EPAHO103000088

(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.

EPAHO103000089

2336 Mobley Industrial Painters
#2336

EPAHO103000090

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Traci 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 # 2336

Generator: Mobley Industrial Painters
Address: 1220 Miller Cutoff Road
LaPorte, TX 77316

Waste Information

Name of Waste: Antifreeze w/water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Regular maintenance of company vehicles
Color: greenish **Odor:** glycol **pH:** 7
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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Mobley Industrial Services
Address: 1220 Miller Cutoff Rd
City, State, Zip: Laporte, TX 77571
Contact: Bonnie Springer Title: HSE
Phone No: 281-470-9180 Fax No: 281-470-0426
24/hr Phone: 281-830-0717
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: CNA Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr
Phone No: 936-483-36603 Fax No: 936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: antifreeze/water
Detailed Description of Process Generating Waste: Regular maintance of company vechiles

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

Color: Greenish Odor: Mild

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

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 10 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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
210°F	7	0 mg/l	0 mg/l	0 %

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

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATION	UNIT
The waste consists of the following materials	Ranges are acceptable	or %
Antifreeze	75	%
water	25	%

SECTION 5: Safety Related Data

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

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: 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:** 9/10/07

Printed Name/Title: Zac McNaughton agent for Mobley

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: Recycle to

Date: 9-12-07 (Approved) Rejected Glycol Recycler - Bulk w/ other

Approval Number: 2336 EGs $35/dm

REC

EPAHO103000093

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.

EPAHO103000095

Mobley Industrial Pai2337
2337

EPAHO10300096

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

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 # 2337

Generator: Mobley Industrial Painters
Address: 1220 Miller Cutoff Road
LaPorte, TX 77316

Waste Information

Name of Waste: Oil w/water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Regular maintenance of company vehicles
Color: brownish **Odor:** oil **pH:** 7
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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Mobley Industrial Services
Address: 1220 Miller Cut Off Rd
City, State, Zip: LaPorte, TX 77571
Contact: Boogie Springer Title: HSE
Phone No: 281-470-4130 Fax No: 281-470-0426
24/hr Phone: 281-820-0717
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CWB Services
Address: 10107 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office Mgr
Phone No: 936-483-31612 Fax No: 936-580-1226

SECTION 3: General Description of the Waste

Name of Waste: Oil w/ water
Detailed Description of Process Generating Waste: Regular maintance of company vechiles

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

Color: Brownish Odor: Oil

Specific Gravity (water=1): 1 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): 10 Other:
Texas State Waste Code No: Recycable
Proper U.S. DOT Shipping Name: Recyclable Oily Water mixture
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point 7140°F	pH 7	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids 0 %
Oil&Grease 0 mg/l	TOC 0 mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

EPAHO103000098

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	75	%
water	25	%

SECTION 5: Safety Related Data

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

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: ϕ
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:** 9/10/07

Printed Name/Title: Zac McNaughton - agent for Mobley

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Ranger

Date: 9-12-07 Approved Rejected

Approval Number: 2337

Additional Information: #35/dm

used oil facility - Recover oil

REC

EPAHO103000099

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

EPAHO103000100

(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.

EPAHO103000101

2338 Harris County Forensic <2338

EPAHO103000102

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Bennie 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 # 2338

Generator: Harris County Forensic
Address: 1885 Old Spanish Trail
Houston, TX 77054

Waste Information

Name of Waste: Non-hazardous waste solids
TCEQ Waste Code #: CESQ3191
Container Type: vac box
Detailed Description of Process Generating Waste:
Limestone cleaned out from a neutralization tank used to neutralize left over acids from t foreensics lab.
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:	Harris County Forensics		
Address:	1885 Old Spannish Trail		
City, State, Zip:	Houston, TX 77054		
Contact:	Jorge Gonzales	**Title:**	Management
Phone No:	281-386-7938	**Fax No:**	713-839-8558
24/hr Phone:	281-386-7938		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	H C Facilities and Property MGMT		
Address:	1310 Prairie, STE 1330		
City, State, Zip:	Houston, TX 77002		
Contact:	Bennie Wilson	**Title:**	
Phone No:	713-755-4247	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Solids
Detailed Description of Process Generating Waste: Limestone cleaned out from a neutralization tank used to nuetralize left over acids from the forensics lab.

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

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-2 **Density:** 10-15 lbs/gal

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

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

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQ3191
Proper U.S. DOT Shipping Name: NOn-RCRA Waste Solids (Spent Lime Stone)
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point ~~>200~~	**pH** Na	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 95-100%
Oil&Grease Namg/l	**TOC** 0mg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

EPAHO103000104

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Limestone	95-100	%
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 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.
Generator Knowledge- Full TCLP analysis-Process has not changed

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: Alex Shannon **Date:** 9-11-07

Printed Name/Title: Alex Shannon

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Richard Mangold

Date: 9-12-07 Approved Rejected

Approval Number: 2338

Process Facility Information:

Dump into Class 1 Sludge Box
Disposal $700.00 (~ 300 gals)
15

09/11/2007 12:44 713-8398558 MURWORTH PAGE 01/01

EPAHO103000105

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

EPAHQ103000106

(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.

EPAHQ103000107

ENVIRON LABORATORIES, INC.

401 North 11th St. • La Porte, Texas 77571

(281) 471-0951 • 1 (800) 880-0156 • FAX (281) 471-5821

Customer:	CES ENVIRONMENTAL	Sample ID:	Harris County Forensics	Environ ID:	96213.01
Project ID:	Harris County Forensics			Matrix:	Liquid
Project No:					
Sampled:	09-27-02	Received:	09-27-02	Reported:	10-07-02

ANALYTE	RESULT	UNITS	REG LIMIT	DET LIMIT	EPA TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 20	mg/l	250	20	SW846.7.3.3	DB	09-27-02	11:05
Reactive Sulfide	< 20	mg/l	500	20	SW846.7.3.4	DB	09-27-02	11:05
Corrosivity (pH)	7.16	su	=>2; =<12.5	--	SW846.9045C	MN	09-27-02	13:20
Ignitability	> 200	°F	> 140	--	SW846.1010	DB	09-27-02	12:00
TCLP METALS					SW846.1311	MN		
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	DB	10-02-02	11:55
Barium	0.16	mg/l	100	0.02	SW846.6010B	DB	10-02-02	11:55
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	DB	10-02-02	11:55
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	DB	10-02-02	11:55
Lead	0.13	mg/l	5.00	0.015	SW846.6010B	DB	10-02-02	11:55
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	10-02-02	03:45
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	DB	10-02-02	11:55
Silver	< 0.5	mg/l	5.00	0.5	SW846.6010B	DB	10-02-02	11:55
TCLP VOC (Dilution Factor: 5.0)					SW846.1311	MN	09-30-02	
Benzene	< 0.025	mg/l	0.5	0.025	SW846.8260B	CR	10-03-02	16:23
2-Butanone (MEK)	< 0.125	mg/l	200.0	0.125	SW846.8260B	CR	10-03-02	16:23
Carbon tetrachloride	< 0.025	mg/l	0.5	0.025	SW846.8260B	CR	10-03-02	16:23
Chlorobenzene	< 0.025	mg/l	100	0.025	SW846.8260B	CR	10-03-02	16:23
Chloroform (Trichloromethane)	< 0.025	mg/l	6.0	0.025	SW846.8260B	CR	10-03-02	16:23
1,2-Dichloroethane (EDC)	< 0.025	mg/l	0.5	0.025	SW846.8260B	CR	10-03-02	16:23
1,1-Dichloroethene	< 0.025	mg/l	0.7	0.025	SW846.8260B	CR	10-03-02	16:23
Tetrachloroethene	< 0.025	mg/l	0.7	0.025	SW846.8260B	CR	10-03-02	16:23
Trichloroethene	< 0.025	mg/l	0.5	0.025	SW846.8260B	CR	10-03-02	16:23
Vinyl chloride	< 0.050	mg/l	0.2	0.050	SW846.8260B	CR	10-03-02	16:23
TCLP SVOC (Conc. Factor: 200/1)					SW846.1311	MN	09-30-02	
1,4-Dichlorobenzene	< 0.05	mg/l	7.5	0.05	SW846.8270C	JAC	10-04-02	12:41
2,4-Dinitrotoluene	< 0.10	mg/l	0.13	0.10	SW846.8270C	JAC	10-04-02	12:41
Hexachlorobenzene	< 0.05	mg/l	0.13	0.05	SW846.8270C	JAC	10-04-02	12:41
Hexachlorobutadiene	< 0.05	mg/l	0.50	0.05	SW846.8270C	JAC	10-04-02	12:41
Hexachlorocyclopentadiene	< 0.05	mg/l	20	0.05	SW846.8270C	JAC	10-04-02	12:41
Hexachloroethane	< 0.05	mg/l	3.0	0.05	SW846.8270C	JAC	10-04-02	12:41
2-Methylphenol (o-Cresol)	0.05	mg/l	200	0.05	SW846.8270C	JAC	10-04-02	12:41
3&4-Methylphenol (m&p-Cresol)	0.26	mg/l	(o,m&p)	0.05	SW846.8270C	JAC	10-04-02	12:41
Nitrobenzene	< 0.05	mg/l	2.0	0.05	SW846.8270C	JAC	10-04-02	12:41
Pentachlorophenol	< 0.25	mg/l	100	0.25	SW846.8270C	JAC	10-04-02	12:41
Pyridine	< 0.05	mg/l	5.0	0.05	SW846.8270C	JAC	10-04-02	12:41
2,4,5-Trichlorophenol	< 0.05	mg/l	400	0.05	SW846.8270C	JAC	10-04-02	12:41
2,4,6-Trichlorophenol	< 0.05	mg/l	2.0	0.05	SW846.8270C	JAC	10-04-02	12:41

TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULT	% RECOVERY	RANGE %
1,2-Dichloroethane-d4 (SS)	0.042	84	76-114
Toluene-d8 (SS)	0.048	96	80-120
4-Bromofluorobenzene (SS)	0.044	88	80-120

TCLP SVOC SURROGATE RECOVERIES

SURROGATE			RANGE %
Nitrobenzene-d5	0.027	54	35-114
2-Fluorobiphenyl	0.026	52	43-116
Terphenyl-d14	0.035	70	33-141
2-Fluorophenol	0.030	30	10-100
Phenol-d5	0.049	49	21-100
2,4,6-Tribromophenol	0.075	75	10-123

Definitions:
TCLP - Toxcisity Charasteric Leaching Procedure
REG - Regulatory Limit (User Should Confirm Limits)
DET - Detection Limit
MDL - Method Detection Limit
VOC - Volatile Organic Compounds
SVOC - Semivolatile Organic Compounds

John Keller, Ph.D
Laboratory Director

EPAHO103000108

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	LIQUID

ANALYST:	DB	DATE:	10.02.02	UNITS:	PPM (mg/l)	NO.SAMPLES:	12

SAMPLES:	96222.01	96223.01	96221.01	96221.02	96216.01	96213.01	96205.01	96205.02
	96226.01	96209.03	96209.04	96209.07				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 96222.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4.84	97	98	1	93	0	75 - 125	20
Barium	0.00	5	4.76	95	95	1	95	0	75 - 125	20
Cadmium	0.00	5	4.71	94	94	0	97	0	75 - 125	20
Chromium	0.00	5	4.80	96	96	0	95	0	75 - 125	20
Lead	0.00	5	4.83	97	97	0	95	0	75 - 125	20
Selenium	0.00	5	4.78	96	96	1	95	0	75 - 125	20
Silver	0.00	5	4.56	91	91	0	101	0	75 - 125	20

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: MERCURY	METHOD: EPA SW846/7471A	MATRIX: TCLP Fluid #1

ANALYSTS: MN	DATE: 10.02.02	UNITS: mg/l	NO.SAMPLES: 8

SAMPLES:	96209.03	96209.04	96209.07	96205.02	96213.01	96222.01	96223.01	96226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE Fluid #1	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	95	0	1	60 - 120	20

JOHN KELLER, Ph.D
Laboratory Director

Page ____ of ____

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

Results To: CES Env. Dan Bowman	Invoice To: CES Env.
Company: CES Env. Services	Company: CES Env. Services
Address: 4904 Griggs Rd	Address: 4904 Griggs Rd
City: Houston State: Tx Zip: 77021	City: Houston State: TX Zip: 77021
Phone: 713-676-1466	Phone: 713-676-1466
Fax: 713-676-1676	Fax: 713-676-1676
e-Mail:	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): 2°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

Project Name: Harris County Forensics / Waste From PH Adj. Tank
Project Location: 1885 Old Spanish Tr Houston Tx 77054
Project No:
Sampler (Print): Dan Bowman
Sampler (Sign):
Sampler Remarks:

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	COMP/GRAB	BTEX (8021)	TPH (TX1005)	MTBE	PAH	TOTAL TCLP SPLP VOLATILES	SEMI-VOLS	RCRA METALS	RCI
	1) Harris County Forensics Waste From PH Adj Tank	9/27/02 9:30							X	X	X	X
	2)											
	3)											
	4)											
	5)											
	6)											
	7)											
	8)											
	9)											
	10)											

Remarks & Additional Analyses

Relinquished By: Dan Bowman	Company: CES Environmental Serv.	Date/Time: 9/27/02 10:25 AM	Received By:
Relinquished By:	Company:	Date/Time:	Received By:
Relinquished By:	Company:	Date/Time: 10:25 AM 9/27/02	Received By: Company: EEL

[1] 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.

EPAHO10300011

Vetco Gray
2339

2339

EPAHO103000112

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Dustin Cambell**

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 # 2339

Generator: Vetco Gray
Address: 12221 N. Houston Rosslyn
Houston, TX 77086

Waste Information

Name of Waste: Unused/off spec chemical (tower power)
TCEQ Waste Code #: 00101191
Container Type:
Detailed Description of Process Generating Waste:
New chemical product drum of Tower Power from Service Chemical that has become of spec and no longer needed
Color: clear **Odor:** slight to none **pH:** 10-12
Physical State:
Incompatibilities: magnesium, aluminum, zinc, strong acids, tin, chromium, brass, bronze
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:	Vetco Gray Inc		
Address:	12221 N. Houston Rosslyn Road		
City, State, Zip:	Houston, TX 77086		
Contact:	Dustin Campbell	**Title:**	HSE Coordinator
Phone No:	281-847-4644	**Fax No:**	281-405-5644
24/hr Phone:			
U.S. EPA I.D. No:	TXD060720505		
State I.D.	30299	**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: Unused/off spec chemical (Tower Power)
Detailed Description of Process Generating Waste: new chemical product drum of Tower Power from Service Chemical that has become off spec and no longer needed

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

Color: clear **Odor:** slight to none

Specific Gravity (water=1): 1.055 **Density:** 8.4 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): 4 **Other:** One Time
Texas State Waste Code No: 00101191
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >200	**pH** 10-12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103000114

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Tower Power (Potassium Hydroxide Solution)	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, Analytical 7070777

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
magnesium, aluminum, zinc, strong acids, tin, chromium, brass, bronze

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: ____
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:** 9-4-07

Printed Name/Title: Dustin Campbell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 9-6-07 Approved Rejected

Approval Number: 2339

Process Facility Information:
$65.00/drum
pH is high - exercise precaution
IL

EPAHO103000115

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

EPAHO103000116

(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.

EPAHO103000117

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#: 7070777
Client Sample ID: Tower Power
Extended ID: Vetro Gray Drums

Sample Collect Date: 7/25/2007 @ 2:30:00 PM **Sample Type:** Comp
Sample Receipt Date: 7/26/2007 @ 1:40:00 PM

Test Group / Method

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	7/27/2007 / 2:30 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	7/27/2007 / 9:30 AM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: CL Date / Time
pH		**12.0**		7/27/2007 / 11:20 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**>150**	**deg F**	7/27/2007 / 11:55 AM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time
Antimony	0.032	1	< 0.032	mg/l	7/27/2007 / 3:31 PM
Arsenic	0.014	5	< 0.014	mg/L	7/27/2007 / 3:31 PM
Barium	0.0005	100	**0.432**	**mg/L**	7/27/2007 / 3:31 PM
Beryllium	0.0005	0.08	< 0.0005	mg/L	7/27/2007 / 3:31 PM
Cadmium	0.002	1	< 0.002	mg/L	7/27/2007 / 3:31 PM
Chromium	0.002	5	**0.058**	**mg/L**	7/27/2007 / 3:31 PM
Lead	0.005	5	< 0.005	mg/L	7/27/2007 / 3:31 PM
Nickel	0.003	70	**0.288**	**mg/L**	7/27/2007 / 3:31 PM
Selenium	0.024	1	< 0.024	mg/L	7/27/2007 / 3:31 PM
Silver	0.002	5	< 0.002	mg/L	7/27/2007 / 3:31 PM

EPAHO103000118

- CERTIFICATE OF RESULTS -

MES Lab#: 7070777

Client Sample ID: Tower Power
Extended ID: Vetco Gray Drums

Sample Collect Date: 7/25/2007 @ 2:30:00 PM **Sample Type:** Comp
Sample Receipt Date: 7/26/2007 @ 1:40:00 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	7/27/2007 / 2:34 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director **Date** ***Tuesday, July 31, 2007***

EPAHO103000119

SERVICE CHEMICAL & SUPPLY, INC.
435 B-1 FM 1092, #403, Stafford, TX 77477
TX 281-980-2210 U.S. 877-980-2210 FAX 281-980-3131

SER 0009

MATERIAL SAFETY DATA SHEET

****

EMERGENCY ASSISTANCE

For emergency assistance involving chemicals call CHEMTREC
(800) 424-9300

****

PRODUCT NAME: TOWER POWER
IDENTITY: Cooling Tower Treatment

HAZARDOUS INGREDIENTS

Material	CAS #	OSHA PEL	ACGIH TLV	Appox %
Potassium Hydroxide	1310-58-3		2 mg/m3	

HAZARD RATINGS:
Health: 2
Fire: 0
Reactivity: 1
Special: none

HAZARD RATING SCALE:
0=Minimal 3=Serious
1=Slight 4=Severe
2=Moderate

PHYSICAL DATA

BOILING POINT, @ 760 mm Hg	> 225 F
SOLUBILITY IN WATER	100 %
SPECIFIC GRAVITY @ 77 F	1.055
VAPOR PRESSURE, mm Hg @ 77 F	N/A
VAPOR DENSITY, (AIR=1)	N/A
VOLATILES, BY VOLUME	N/A %
APPEARANCE @ 77 F	CLEAR LIQUID
ODOR	NONE
pH (100 %)	N/A

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, TOC,: None to Boil
FLAMMABLE LIMITS IN AIR, % BY VOLUME: Unknown LOWER: Undetermined
UPPER: Undermined
EXTINGUISHING MEDIA: Suitable for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
UNUSUAL FIRE & EXPLOSION HAZARDS: Contact with some metals-magnesium, aluminum, and zinc. Can generate hydrogen rapidly(explosive).

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See HAZARDOUS INGREDIENTS section.
PRIMARY ROUTES OF EXPOSURE: Eye or Skin contact, Ingestion & Inhalation.
SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION: Inhalation of mists can cause damage to respiratory tract and to lung tissue depending on extent of exposure.
SKIN CONTACT: Prolonged contact destroys tissue. Mist can cause dermatitis.
SWALLOWED: None currently known.
CHRONIC EFFECTS OF EXPOSURE: No specific information available.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported.

EMERGENCY AND FIRST AID PROCEDURES

SKIN CONTACT: Wash contaminated area with soap and water promptly. If irritation occurs, see a physician. Soaked clothing should be changed immediately, and laundered before reuse.
EYE CONTACT: Flush eyes with copious amounts of water for a minimum of 15 minutes. Get medical assistance. If medical assistance is not immediately avialable, flush an additional 15 minutes.
INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.
INGESTION: Immediately give milk, followed by citrus juice. Do not induce vomiting. If needed contact a physician.

REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC): Stable
INCOMPATABILITIES (MATERIALS TO AVOID): Magnesium, aluminum, zinc, strong acids, tin, chromium, brass, bronze.
HAZARDOUS DECOMPOSITION PRODUCTS: contact with above metals may release hydrogen which is explosive.
POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None known.

SPILL, LEAK AND DISPOSAL PROCEDURES

ACTIONS TO TAKE FOR SPILLS OR LEAKS: Wear protective clothing including rubber gloves, rubber boots, and a supplied air respirator if in a confined area, always wear eye protection. For small spills or drips, dilute with plenty of water and flush to sewer. For large spills, contain by diking with soil or other sorbent material and then pump into DOT approved waste containers. Comply with all applicable governmental regulations on spill reporting, and handling and disposal of waste.

DISPOSAL METHODS: Dispose of contaminated product and materials used for clean up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper waste disposal procedures.

SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Store in cool dry place away from incompatable materials. Protect from freezing. Vent container frequently, and more often in warm weather, to relieve pressure. Wash thoroughly after use. Do not get in eyes, on skin, or on clothing.

OTHER PRECAUTIONS: Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not take internally.

FOR ADDITIONAL INFORMATION

CONTACT: Technical Director, Service Chemical during business hours, central time; 281-980-2210

Active: ☒	Inactive: ☐

GENERAL INFORMATION	
Waste Description: One-Time Shipment of Off-Spec Chemical (Tower Power)	**Waste ID No:** 00101191
	Facility ID No: 30299
	Facility: NHR Facility
	Date: 1-1-07

PROCESS KNOWLEDGE	
Full Description of Waste Stream Generation Activities:	New chemical product drum of Tower Power from Service Chemical that has become off-spec, and not needed any longer. One time shipment
Chemicals/Materials involved in the waste generation process:	Potassium hydroxide.
Potential Contaminants:	None
MSDS Information (flash point, etc.) :	See MSDS

ANALYTICAL DATA – SAMPLING PROCEDURES			
Sample Date(s):	7-25-07	**Site/Unit Description(s):**	Sampled only drum that is onsite
Sampling Methods and Equipment:	Used a clean COLIWASA to draw a liquid sample from the drum		
Sampling Techniques (collection, containerization, preservation):	Sample was placed in a clean, laboratory-supplied glass jar and placed on ice to 4 deg. C		
Rationale for Sampling Plan :	Sampled only drum on-site.		

DOCUMENTATION ATTACHED							
Analytical Results:	☒	**C-O-C:**	☒	**Operating Procedure**	☐	**Classification Checklist:**	☒
QC Data:	☒	**MSDS:**	☒	**Material Specification**	☐		

WASTE DESCRIPTION: Off-Spec Chemical (Tower Power) **TWC: 00101191**

This chapter provides a checklist to help you classify your hazardous waste and your nonhazardous industrial waste. For an overview of these types of waste, refer back to Figure 1 in Chapter 1; for more details, refer to 30 TAC Chapter 335 Subchapter R Sections 335.501–508. (You can obtain your own copy of state rules from the TCEQ publications unit; ways to contact this unit are listed under the heading "TCEQ and EPA Forms" in Chapter 6.)

Process Knowledge vs. Analytical Testing
In determining a waste stream's classification, a generator may use *process knowledge*and/or *analytical testing*. Process knowledge is the owner or operator's knowledge about how the facility operates, how a waste was produced and handled, and other information based on operating experience. Analytical testing is information about a waste from laboratory analysis. In the checklist, the nonhazardous classification criteria that could involve analytical testing have been marked with an *. This marking **does not** mean that analytical testing is the only way to evaluate these criteria. If sufficient process knowledge is available, little or no analysis may need to be performed. You should evaluate whether you have enough process knowledge about the waste to classify it or whether analytical testing is needed.

Documentation
Regardless of whether you rely on process knowledge or opt for analytical testing, you must fully document the information used in making your waste classification. **A completed checklist does not qualify as full documentation.** Documentation should be in a written and/or electronically stored format that is reasonably accessible and easily reproducible. For details on documentation requirements, see Chapter 4.

Part I. Hazardous Waste Determination
All waste generators should work through Part I of this checklist. In this part you will determine whether your waste is hazardous because (a) it is listed as hazardous by EPA or (b) it displays characteristics that EPA says make it hazardous.

In federal regulatory language, the first step in classifying your waste is called "making a *hazardous waste determination*." The definition of hazardous waste, based upon the Resource Conservation and Recovery Act (RCRA), is found in Title 40 of the Code of Federal Regulations (CFR), Part 261. This TCEQ guidance document reflects the hazardous waste definition in the *FederalRegister* as of July 1, 2004. If that definition changes, the generator is still responsible for making an accurate hazardous waste determination in accordance with the latest regulations—instead of with what is printed in this guidance document.

IF the answer to any of the questions in Part I is "Yes,"
THEN the waste is hazardous.

Possible *Exclusions* from Hazardous Classification
Under certain conditions, some types of wastes are excluded from being considered hazardous (40 CFR Sections 261.3–4). Generators may wish to review these exclusions before working through Part I of this checklist.

Part I-A. Listed Hazardous Waste Determination
The EPA lists some 400 hazardous wastes. Descriptions of listed waste are found in 40 CFR Part 261, Subpart D, Sections 261.31–33. These wastes are often referred to as follows:
- "F" listed waste (waste from nonspecific sources, Section 261.31);
- "K" listed waste (wastes from specific sources, Section 261.32);
- "P" listed waste (unused acutely hazardous off-specification materials as well as container residues and spill residues of these materials, Section 261.33);
- "U" listed waste (unused toxic hazardous off-specification materials as well as container residues and spill residues of these materials, Section 261.33).

QUESTION: Is the waste a listed hazardous waste, or is it mixed with or derived from one? ☐ **Yes** ☒ **No**

Part I-B. Characteristic Hazardous Waste Determination
Wastes may be hazardous if they display any of four characteristics: ignitability,corrosiveness, reactivity, or toxicity.

Ignitability
Wastes that are hazardous because they may ignite include the following:
- Liquid wastes (other than those aqueous waste containing less than 24 percent alcohol by volume) that have a flash point less than 60OC (140OF). (The test method is the Pensky-Martens closed cup tester, using the test method specified in ASTM Standard D-93-79 or D-93-80, or a Setaflash closed cup tester, using the test method specified in ASTM Standard D-3278-78.)
- Nonliquid wastes that, under standard temperature and pressure, are capable of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burn so vigorously and persistently that they create a hazard.
- Wastes that meet the definition of an ignitable compressed gas (see 49 CFR Section 173.300).
- Wastes that meet the definition of an oxidizer (see 49 CFR Section 173.151).

QUESTION: Is the waste ignitable according to 40 CFR Section 261.21? ☐ **Yes** ☒ **No**

Corrosiveness
Wastes that are hazardous because they are corrosive include the following:
- aqueous wastes with a pH of 2 units or below or of 12.5 units or above;
- liquid wastes that corrode steel at a rate greater than 6.35 mm (0.250 inches) per year.

QUESTION: Is the waste corrosive according to 40 CFR Section 261.22? ☐ **Yes** ☒ **No**

Reactivity
A waste is considered reactive if it meets any of the following conditions:
- It is capable of detonation or explosive decomposition or reaction
  - ▼ at standard temperature and pressure,
  - ▼ if subjected to a strong ignition source, or
  - ▼ if heated under confinement.
- When mixed with water, it is
  - ▼ potentially explosive,
  - ▼ reacts violently, or
  - ▼ generates toxic gases or vapors.
- If a cyanide or sulfide-bearing waste is exposed to pH conditions between 2 and 12.5, it can generate enough toxic gases, vapors, or fumes to present a danger to human health or the environment. Generally, if a waste generates **250** ppm or more of reactive cyanides or **500** ppm or more of reactive sulfides, it is considered a reactive waste. (It should be noted that these levels of reactive compounds are just guidance. Each waste must be evaluated for reactivity on a case-by-case basis).
- It is normally unstable and readily undergoes violent change without detonating.
- It is a forbidden explosive (as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53).
- It is a Class B explosive (see 49 CFR Section 173.88).

QUESTION: Is the waste reactive according to 40 CFR Section 261.23? ☐ **Yes** ☒ **No**

Toxicity
A waste is toxic if the toxicity characteristic leaching procedure (TCLP) shows that a representative sample from the waste contains one or more constituents at or above the levels listed in Table 3-1. The TCLP is described in EPA Method 1311 (SW-846).

Table 3-1 TCLP Regulatory Levels

arsenic —5.0 mg/l	1,4-dichlorobenzene — 7.5 mg/l	methyl ethyl ketone — 200.0 mg/l
barium — 100.0 mg/l	1,2-dichloroethane — 0.5 mg/l	nitrobenzene — 2.0 mg/l
benzene — 0.5 mg/l	1,1-dichloroethylene — 0.7 mg/l	pentachlorophenol — 100.0 mg/l
cadmium — 1.0 mg/l	2,4-dinitrotoluene — 0.13 mg/l	pyridine — 5.0 mg/l
carbon tetrachloride — 0.5 mg/l	endrin — 0.02 mg/l	selenium — 1.0 mg/l
chlordane — 0.03 mg/l	heptachlor (and its epoxide) — 0.008 mg/l	silver — 5.0 mg/l
chlorobenzene — 100.0 mg/l	hexachlorobenzene — 0.13 mg/l	tetrachloroethylene — 0.7 mg/l
chloroform — 6.0 mg/l	hexachlorobutadiene — 0.5 mg/l	toxaphene — 0.5 mg/l
chromium — 5.0 mg/l	hexachloroethane — 3.0 mg/l	trichloroethylene — 0.5 mg/l
o-cresol — 200.0 mg/l	lead — 5.0 mg/l	2,4,5-trichlorophenol — 400.0 mg/l
m-cresol — 200.0 mg/l	lindane — 0.4 mg/l	2,4,6-trichlorophenol — 2.0 mg/l
p-cresol — 200.0 mg/l	mercury — 0.2 mg/l	2,4,5-TP (Silvex) — 1.0 mg/l
cresol — 200.0 mg/l	methoxychlor — 10.0 mg/l	vinyl chloride — 0.2 mg/l
2,4-D — 10.0 mg/l		

QUESTION: Is the waste toxic according to 40 CFR Section 261.24? ☐ **Yes** ☒ **No**

Review of Checklist Part I—Hazardous Waste
IF the answer to any of the preceding questions in Part I is "Yes,"
THEN the waste is HAZARDOUS; PROCEED to Chapter 4.

IF the answers are "No" to all the preceding questions, AND the waste is NONINDUSTRIAL, THEN STOP here.	IF the answers are "No" to all of the preceding questions, AND the waste is INDUSTRIAL, THEN PROCEED to Part II.

Part II: Nonhazardous Industrial Waste Classes 1 & 2

The determination in this part of the checklist applies only to nonhazardous industrial waste—see figure 1 in Chapter 1. (This part of the checklist is based on regulations found in 30 TAC Sections 335.505–06 and 335.508).

IF the answer to any of the **un-numbered** questions in this part of the checklist is "Yes,"
THEN the nonhazardous industrial waste is a Class 1 waste.
IF all the answers to the **un-numbered** questions in this part are "No,"
THEN the industrial waste is a Class 2 waste.

Generator's Self-Classification

QUESTION: Has the generator chosen to classify its nonhazardous waste as Class 1? ☒ Yes ☐ No Self-classify since this waste has a high pH

Container Waste
IF the waste is a container, greater than 5 gallons in holding capacity, which has held
▼ a hazardous substance (as defined in 40 CFR Part 302 and listed in Appendix A of this guidance document),
▼ a hazardous waste (including acutely hazardous wastes),
▼ a Class 1 waste, and/or
▼ a material that would be classified as a hazardous or
Class 1 waste if disposed of,

THEN answer questions 1 and 2. (Please note that containers that have held acutely hazardous wastes must be triple-rinsed before they can be classified as empty).
IF these conditions are not present in your situation,
THEN proceed to the next un-numbered question.

1. Has the container had all its residues removed? ☐ Yes ☐ No NA
2. Has the container been rendered unusable? ☐ Yes ☐ No NA

QUESTION: Are *any* of the answers to questions (1) or (2) above "NO"? ☐ Yes ☒ No

Regulated Asbestos-Containing Material (RACM)

QUESTION: Does the waste contain asbestos material identified as RACM, per 40 CFR Part 61? * ☐ Yes ☒ No

Polychlorinated Biphenyls (PCBs)

QUESTION: Is the waste contaminated by a material that originally contained 50 or more parts per million (ppm) total PCBs? * ☐ Yes ☐ No

QUESTION: Does the waste contain 50 or more ppm PCBs?* ☐ Yes ☐ No

Petroleum Substance Waste
1. Is your waste specifically identified as a *petroleum substance* (see Chapter 8, Definitions of Terms) or contaminated with a material identified as a petroleum substance waste? ☐ Yes ☒ No
2. Does the waste contain more than 1,500 ppm total petroleum hydrocarbons (TPH)? ☐ Yes ☒ No

QUESTION: Are the answers to both of the numbered questions above "Yes"? (If one or both of the answers are "No," enter "No" for this question.) ☐ Yes ☒ No
"New Chemical Substance"
See "new chemical substances wastes" in Chapter 8, Definitions and Terms, for a description of how this particular type of waste may be classified as Class 2 or 3.

QUESTION: Is the waste from the production of a "new chemical substance," as defined by the federal Toxic Substances Control Act, 15 U.S.C.A. Section 2602(9)? ☐ Yes ☒ No

Out-of-State Origin
See "wastes generated out-of-state" in Chapter 8, Definitions of Terms, for details on how this particular type of waste may be classified as Class 2 or 3.

QUESTION: Is the waste generated outside Texas? ☐ Yes ☒ No

Constituent Levels and Specified Properties for Nonhazardous Industrial Class 1 Wastes

QUESTION: If the waste is a liquid, does it have a flash point of less than 65.6C (150F)? * ☐ Yes ☒ No

QUESTION: Is the waste a solid or semi-solid that—under conditions normally encountered in storage, transportation, and disposal—
■ is liable to cause fires through friction or through retained heat from manufacturing or processing; or
■ can be ignited readily, and when ignited burns so vigorously and persistently as to create a serious hazard? ☐ Yes ☒ No

QUESTION: Is the waste a semi-solid or solid that, when mixed with an equivalent weight of ASTM Type II laboratory distilled or deionized water, produces a solution with a pH of 2 or less or 12.5 or more? ☐ Yes ☒ No
(***Exception:*** for solidified, stabilized, encapsulated, or otherwise chemically bound wastes, an exception is provided in 30 TAC Section 335.505(3))

QUESTION: Does the waste leach Class 1 toxic constituents at or above the levels listed in Table 1, Appendix 1 of Chapter 335 Subchapter R when submitted to the TCLP?* ☐ Yes ☒ No

(Where matrix interferences of the waste cause the Practical Quantitation Limit (PQL) of the specific analysis to be greater than the Maximum Concentration listed in Table 1, Appendix 1 of 30 TAC Chapter 335 Subchapter R, then the achievable PQL becomes the Maximum Concentration, provided that the generator maintains documentation that satisfactorily demonstrates to the TCEQ that lower levels of quantitation of a sample are not possible.) A satisfactory demonstration includes the results from the analysis of the waste for that specific constituent by a laboratory using an appropriate method found in *Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods* (EPA SW-846); *Methods or Chemical Analysis of Water and Wastes* (EPA-600 series); *Standard Methods for the Examination of Water and Wastewater*; *American Society for Testing and Materials (ASTM) Standard Methods*; or an equivalent method approved by the TCEQ.

Lack of Class 2 or 3 Information

QUESTION: Is information lacking that demonstrates the waste belongs in Class 2 or 3? ☒ Yes ☐ No Self-classify as class 1

Review of Checklist Part II:
Class 1 or 2 Nonhazardous Industrial Waste

IF the answer to any of the preceding **un-numbered** questions in Part II is "Yes,"
THEN the nonhazardous industrial waste is a Class 1 waste.

IF the answers are "No" to all the preceding **un-numbered** questions in Part II,
THEN the industrial waste is a Class 2 waste.

WEATHERFORD < Pinemont > 2340
2340

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Rick Phillips**

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 # 2340

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Biocide
TCEQ Waste Code #: CESQ1191
Container Type: 5 ga pails
Detailed Description of Process Generating Waste:
Out of spec, no longer used material
Color: colorless to off yellow **Odor:** mild pesticide odor **pH:** 3-7
Physical State:
Incompatibilities: oxidizers and bases
Safety Related Data/Special Handling:
level C

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**

RB

SECTION 1: Generator Information

Company:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCESQG		
State I.D.	~~TBD~~ 88169	**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: Biocide
Detailed Description of Process Generating Waste: Out of Spec, no longer used material

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

Color: colorless to off yellow **Odor:** mild pesticide odor

Specific Gravity (water=1): 1.14-1.17 **Density:** 9 lbs/gal

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

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** ☐ **Other (explain)**
Container Size: _____ _____ _____ 5 gallon containers

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 2 **Other:** _____
Texas State Waste Code No: ~~TBD~~ CESQ 1191
Proper U.S. DOT Shipping Name: Toxic liquid, organic, n.o.s., (Tetrakis (hydroxymethyl) Phosphonium Sulfate)
Class: 6.1 **UN/NA:** UN 2810 **PG:** PG-III **RQ:** NA

Flash Point >140	**pH** 3-7	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <3%
Oil&Grease <1500mg/l	**TOC** <1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000130

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Tetrakis (hydroxymethyl) phosphonium sulfate	30-60	%
Water	30-60	%
Inert Material	0-5	%

SECTION 5: Safety Related Data

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

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 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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. Jackson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-6-07 Approved Rejected

Approval Number: 2340

Additional Information: Biocide – 75.00/5 Gal Trans 200.00 + FSC

SECTION 1C: 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

EPAHO103000132

(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.

EPAHO103000133

FAX: 832-493-1001 CES-1477

NALCO

MATERIAL SAFETY DATA SHEET

PRODUCT

EC6297A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **EC6297A**

COMPANY IDENTIFICATION : Nalco Energy Services, L.P.
P.O. Box 87
Sugar Land, Texas
77487-0087

EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC

NFPA 704M/HMIS RATING
HEALTH : 2 / 2 FLAMMABILITY : 0 / 0 INSTABILITY : 1 / 1 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)
Tetrakis(hydroxymethyl) phosphonium sulfate	55566-30-8	30.0 - 60.0

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

DANGER
CORROSIVE. Causes eye damage and skin irritation.
Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if inhaled. Avoid breathing vapor. Remove contaminated clothing and wash before reuse. Harmful or fatal if swallowed. Avoid contamination of food.
Wear suitable protective clothing, gloves and eye/face protection.
May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of phosphorus (POx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :
Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :
Can cause moderate to severe irritation.

SKIN CONTACT :
Can cause mild to moderate irritation. Repeated or prolonged contact may cause skin sensitization.

EPAHO103000134

INGESTION :
Not a likely route of exposure. No adverse effects expected.

INHALATION :
Not a likely route of exposure. Aerosols or product mist may irritate the upper 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.

4. FIRST AID MEASURES

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

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 phosphorus (POx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :
Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :
SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Wash site of spillage thoroughly

EPAHO103000135

with water. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :
Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :
Avoid eye and skin contact. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labelled. Keep the containers closed when not in use. Use with adequate ventilation.

STORAGE CONDITIONS :
Store the containers tightly closed. Store in suitable labelled containers. Store separately from oxidizers. Store separately from bases. Store separately from reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :
This product does not contain any substance that has an established exposure limit.

ENGINEERING MEASURES :
General ventilation is recommended.

RESPIRATORY PROTECTION :
If significant mists, vapors or aerosols are generated an approved respirator is recommended.

HAND PROTECTION :
Neoprene gloves, Butyl 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	Colorless
ODOR	Characteristic

EPAHO103000136

SPECIFIC GRAVITY	1.164 @ 68 °F / 20 °C
SOLUBILITY IN WATER	Miscible
pH (100 %)	3.2
VISCOSITY	21 cst @ 77 °F / 25 °C
FREEZING POINT	-45 °F / -43 °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.

CONDITIONS TO AVOID :

Avoid temperatures greater than 160 °C

MATERIALS TO AVOID :
Oxidizing agents Strong Bases

HAZARDOUS DECOMPOSITION PRODUCTS :
Under fire conditions: Oxides of carbon, Oxides of phosphorus, Oxides of sulfur, Phosphine (highly toxic and flammable)

11. TOXICOLOGICAL INFORMATION

The following results are for the product.

ACUTE ORAL TOXICITY :

Species	LD50	Test Descriptor
Rat	831 mg/kg	Product

Rating : Non-Hazardous

ACUTE DERMAL TOXICITY :

Species	LD50	Test Descriptor
Rabbit	> 2,000 mg/kg	Product

Rating : Non-Hazardous

ACUTE INHALATION TOXICITY :

Species	LC50	Test Descriptor
Rat	2.48 mg/l (1 hrs)	Product

Rating : Harmful

EPAHO103000137

SENSITIZATION :
Repeated or prolonged contact may cause skin sensitization.

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).

MUTAGENICITY :
Negative in the Ames Test. Clastogenic in an invitro assay for chromosomal abberations in Chinese Hamster Ovary cells. Negative in cultured rat hepatocytes unscheduled DNA synthesis.

HUMAN HAZARD CHARACTERIZATION :
Based on our hazard characterization, the potential human hazard is: High

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

The following results are for the active components.

ACUTE FISH RESULTS :

Species	Exposure	LC50	Test Descriptor
Rainbow Trout	96 hrs	119 mg/l	75% Active Ingredient
Bluegill Sunfish	96 hrs	93 mg/l	75% Active Ingredient

Rating : Slightly toxic

ACUTE INVERTEBRATE RESULTS :

Species	Exposure	LC50	EC50	Test Descriptor
Daphnia magna	48 hrs	19.4 mg/l		75% Active Ingredient

Rating : Slightly toxic

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION
Based on our hazard characterization, the potential environmental hazard is: Moderate

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.

EPAHO103000138

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.

LAND TRANSPORT :

Proper Shipping Name :	TOXIC LIQUID, ORGANIC, N.O.S.
Technical Name(s) :	TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE
UN/ID No :	UN 2810
Hazard Class - Primary :	6.1
Packing Group :	III
Flash Point :	None

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name :	TOXIC LIQUID, ORGANIC, N.O.S.
Technical Name(s) :	TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE
UN/ID No :	UN 2810
Hazard Class - Primary :	6.1
Packing Group :	III
IATA Cargo Packing Instructions :	618
IATA Cargo Aircraft Limit :	220 L (Max net quantity per package)

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name :	TOXIC LIQUID, ORGANIC, N.O.S.
Technical Name(s) :	TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE
UN/ID No :	UN 2810
Hazard Class - Primary :	6.1
Packing Group :	III

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.

Tetrakis(hydroxymethyl) phosphonium sulfate : Corrosive to eyes, Dermal Sensitizer, Reproductive Effect

CERCLA/SUPERFUND, 40 CFR 117, 302 :
Notification of spills of this product is not required.

EPAHO103000139

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
X	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.

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) :
This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT (FIFRA) :
EPA Reg. No. 33677-6-68708
In all cases follow instructions on the product label.

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) :
None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65 :
Substances known to the State of California to cause cancer are present as an impurity or residue.

MICHIGAN CRITICAL MATERIALS :
None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :
None of the substances are specifically listed in the regulation.

EPAHO103000140

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 :
D1B - Materials Causing Immediate and Serious Toxic Effects - Toxic Material, D2B - Materials Causing Other Toxic Effects - Toxic Material

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :
The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

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

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.

EPAHO103000141

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 : 02/20/2004
Version Number : 1.8

EPAHO103000142

C.E.O Performance Chemical 2341

2341

EPAHQ1030001143

7 Q

LAB

T-34

8-4-09

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Dan Curnock**

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 # 2341

Generator: C.E.O. Performance Chemicals @ Advanced Blending
Address: 200 Motel Drive
Alvin, TX 77046

Waste Information

Name of Waste: Unused alumnu
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
unused product in 275 gallon tote
Color: clear green liquid **Odor:** mild **pH:** 2.08
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
handle as corrosive

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.

D3

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:	C.E.O. Performance Chamicals @ Advanced Blending		
Address:	200 Motel Drive		
City, State, Zip:	Alvin, TX 77511		
Contact:	Dan Curnock	**Title:**	Management
Phone No:	832-467-4555	**Fax No:**	832-467-4589
24/hr Phone:	832-467-4555		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:	C.E.O. Performance Chamicals		
Address:	12 Greenway Plaza, Suite 1100 #112		
City, State, Zip:	Houston, TX 77046		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Unused Alumnu
Detailed Description of Process Generating Waste: Unused product in a 275 gallon tote.

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

Color: Clear Green Liquid **Odor:** Mild

Specific Gravity (water=1): 1.058 **Density:** 8-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐	**Drum**	☒	**Tote**	☐	**Truck**	☐ **Other (explain)**
Container Size:		____		275		____	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQ1191
Proper U.S. DOT Shipping Name: Corrosive Liquids, NOS (Phosphoric Acid)
Class: 8 **UN/NA:** 1805 **PG:** III **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
None	2.08	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	<5000mg/l	0mg/l	0mg/l	0mg/l

EPAHQ103000146

SECTION 4: Physical and Chemical Data

CONSTITUENT/PARAMETER	CONCENTRATION	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Unused Alumnu	100	%

SECTION 5: Safety Related Data

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

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:	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: Daniel P Curnock **Date:** 9/6/2007

Printed Name/Title: General Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Rebecca Thompson	$500 disposal + trans 4F SC
Date: 9-11-07 (Approved) Rejected	1L
Approval Number: 2341	

SEP-06-2007 11:43 CES Environmental Svcs.

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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

SEP-06-2007 11:44 CES Environmental Svcs.

TOTAL P.05

(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.

SEP-06-2007 11:44 CES Environmental Svcs. 1.00

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MATERIAL SAFETY DATA SHEET

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(b) (4)

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(b) (4)

[redacted]

- Page 6

Duco, Inc. 2343 2343

EPAHO103000155

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Bill Martin**

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 # 2343

Generator: Duco, Inc.
Address: 16661 Jacinto Port Blvd
Houston, TX 77015

Waste Information

Name of Waste: Fluoroscent light bulbs
TCEQ Waste Code #: UNIV320H
Container Type: 4' & 8' boxes
Detailed Description of Process Generating Waste:
Burned out light bulbs
Color: white **Odor:** non **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

DR.

SECTION 1: Generator Information

Company:	DUCO Inc. Technip		
Address:	16661 Jacintoport Blvd.		
City, State, Zip:	Houston, TX 77015		
Contact:	Bill Martin	**Title:**	HSE Mgr.
Phone No:	281-249-2842	**Fax No:**	281-457-6794
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD000807966		
State I.D.	33041	**SIC Code:**	3498

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: Fluorscent Light Bulbs
Detailed Description of Process Generating Waste: Burned out light bulbs

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

Color: white **Odor:** none

Specific Gravity (water=1): .70 **Density:** 6 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☒	**Other (explain)**
Container Size:		55 g					4' and 8' boxes

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 substances, solid, n.o.s., 9, UN 3077, PG-III
Class: 9 **UN/NA:** UN 3077 **PG:** III **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

EPAHO103000157

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Fluorscent 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):
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:** 9/12/7

Printed Name/Title: Bill Martin

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-12-07 Approved Rejected

Approval Number: 2343

Additional Information: .50 - 4' Bulbs
.75 - 5-8' Bulbs
Trans ~~[illegible]~~ .150 cc/Plc
+ FSC → ~~[illegible]~~ out bound to
Env. Light Recyclers

UNIV

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

EPAHO103000159

(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.

EPAHO103000160

DANA Containers 2344

EPAHO103000161

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Ruben Fernandez**

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 # 2344

Generator: Dana Container
Address: 902 Sens Road
La Porte, TX 77572

Waste Information

Name of Waste: Non hazardous waste sludge
TCEQ Waste Code #: 10001141
Container Type: 20 yd box
Detailed Description of Process Generating Waste:
disposal of non hazardous heels from cleaning tank trailers
Color: varies **Odor:** hydrocarbon **pH:** 4-10
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

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:	Dana Container		
Address:	902 Sens Rd		
City, State, Zip:	LaPorte TX 77572		
Contact:	Ruben Fernandez	Title:	
Phone No:	281-471-4700	Fax No:	281-470-2570
24/hr Phone:			
U.S. EPA I.D. No:	TXR 000011155		
State I.D.	41563	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Dana Container		
Address:	P.O.Box 1023		
City, State, Zip:	LaPort Tx 77572		
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Non-hazardous waste sludge(tank heels)
Detailed Description of Process Generating Waste: disposal of non-hazardous heels from cleaning tank trailers

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

Color: Varies Odor: Hydrocarbon

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: ____ ____ ____ 20 yrd box

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1-2 Other: ____
Texas State Waste Code No: 10001141
Proper U.S. DOT Shipping Name: Non-hazardous waste sludge (tank heels)
Class: na UN/NA: na PG: na RQ: na

Flash Point >160	pH 4-10	Reactive Sulfides <20mg/l	Reactive Cyanides <20mg/l	Solids 60%
Oil&Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dirt, Sand, Rocks	20-40	%
Water	30-60	%
Poloyols, Wax, Lube oils, Food oils	2-5	%
Rust	2-5	%
Amines, alcohols	2-5	%

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.
Analysis

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:
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:** 9-12-07

Printed Name/Title: RUBEN FERNANDEZ - TANK WASH MGR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: _____ Date: 9-12-07 (Approved) Rejected Approval Number: 2344	Ryan to enter pricing IL

EPAHO103000164

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

EPAHO103000165

(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.

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 16th. St.
La Porte, TX 77571
281.471.0051 FAX:281.471.[illegible]

CERTIFICATE OF ANALYSIS NO: 61162.01 1of 1

Customer: Dana Corl
Project ID:
Project Loc: La Porte, TX
Charge/P.O.:

Sample ID: Drain Sludge
Matrix: Sludge
Type: Grab
RECEIVED BASIS

Environ ID: 61162.01
Sampled: 08-03-07
Received: 08-03-07
Reported: 08-07-07

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	SW846.7.3.3	LC	08-06-07	11:30
Reactive Sulfide	< 50	mg/kg	500	50	SW846.7.3.4	LC	08-06-07	11:20
Corrosivity (Ph)	7.01	su	=>2, =<12.5	--	SW846.9045C	LC	08-06-07	11:20
Ignitability	> 160	°F	> 140	--	SW846.1010M	LC	08-06-07	12:50
METALS (RCRA) - TCLP					SW846.1311	MN	08-03-07	
Antimony	< 0.08	mg/l	1.0	0.08	SW846.6010B	JK	08-07-07	14:00
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	08-07-07	14:00
Barium	2.03	mg/l	100	0.02	SW846.6010B	JK	08-07-07	14:00
Beryllium	< 0.05	mg/l	0.08	0.05	SW846.6010B	JK	08-07-07	14:00
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	08-07-07	14:00
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	08-07-07	14:00
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	08-07-07	14:00
Nickel	1.21	mg/l	70.0	0.05	SW846.6010B	JK	08-07-07	14:00
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	08-07-07	14:00
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	08-07-07	14:00
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	08-06-07	09:00
VOC - TCLP (Dilution Factor: 1.0)					SW846.1311	MN	08-03-07	
Benzene	< 0.08	mg/l	0.5	0.08	SW846.8260B	JAC	08-06-07	14:33
2-Butanone (MEK)	< 0.40	mg/l	200.0	0.40	SW846.8260B	JAC	08-06-07	14:33
Carbon tetrachloride	< 0.08	mg/l	0.5	0.08	SW846.8260B	JAC	08-06-07	14:33
Chlorobenzene	< 0.08	mg/l	100	0.08	SW846.8260B	JAC	08-06-07	14:33
Chloroform (Trichloromethane)	0.60	mg/l	6.0	0.08	SW846.8260B	JAC	08-06-07	14:33
1,2-Dichloroethane (EDC)	< 0.08	mg/l	0.5	0.08	SW846.8260B	JAC	08-06-07	14:33
1,1-Dichloroethene	< 0.08	mg/l	0.7	0.08	SW846.8260B	JAC	08-06-07	14:33
Tetrachloroethene	< 0.08	mg/l	0.7	0.08	SW846.8260B	JAC	08-06-07	14:33
Trichloroethene	0.14	mg/l	0.5	0.08	SW846.8260B	JAC	08-06-07	14:33
Vinyl chloride	< 0.08	mg/l	0.2	0.08	SW846.8260B	JAC	08-06-07	14:33
SVOC - TCLP (Conc. Factor: 50.0)					SW846.1311	MN	08-03-07	
1,4-Dichlorobenzene	< 0.10	mg/l	7.5	0.10	SW846.8270C	JAC	08-06-07	15:27
2,4-Dinitrotoluene	< 0.10	mg/l	0.13	0.10	SW846.8270C	JAC	08-06-07	15:27
Hexachlorobenzene	< 0.10	mg/l	0.13	0.10	SW846.8270C	JAC	08-06-07	15:27
Hexachlorobutadiene	< 0.10	mg/l	0.50	0.10	SW846.8270C	JAC	08-06-07	15:27
Hexachloroethane	< 0.10	mg/l	3.0	0.10	SW846.8270C	JAC	08-06-07	15:27
2-Methylphenol (o-Cresol)	< 0.10	mg/l	(200)	0.10	SW846.8270C	JAC	08-06-07	15:27
3&4-Methylphenol (m&p-Cresol)	1.20	mg/l	(o+m+p)	0.10	SW846.8270C	JAC	08-06-07	15:27
Nitrobenzene	0.27	mg/l	2.0	0.10	SW846.8270C	JAC	08-06-07	15:27
Pentachlorophenol	< 0.50	mg/l	100	0.50	SW846.8270C	JAC	08-06-07	15:27
Pyridine	< 0.40	mg/l	5.0	0.40	SW846.8270C	JAC	08-06-07	15:27
2,4,5-Trichlorophenol	< 0.10	mg/l	400	0.10	SW846.8270C	JAC	08-06-07	15:27
2,4,6-Trichlorophenol	< 0.10	mg/l	2.0	0.10	SW846.8270C	JAC	08-06-07	15:27

QUALITY CONTROL -- TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
1,2-Dichloroethane-d4 (SS)	0.046	92	76-114
Toluene-d8 (SS)	0.052	104	80-120
4-Bromofluorobenzene (SS)	0.054	108	80-120

QUALITY CONTROL -- TCLP SVOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Nitrobenzene-d5	0.036	72	35-114
2-Fluorobiphenyl	0.036	72	43-116
Terphenyl-d14	0.038	76	33-141
Phenol-d5	0.038	38	21-100
2-Fluorophenol	0.046	46	10-100
2,4,6-Tribromophenol	0.120	120	10-123

Definitions: TCLP - Toxicity Characteristic Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Limit VOC - Volatile Organic Compounds * Burn Time
MQL - Method Quantitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million TPH - Total petroleum Hydrocarbons
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103000167

Septon Company 2345
2345

EPAHO103000168

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Darrell Clark**

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 # 2345

Generator: Septon Company of America
Address: 11414 Choate Road
Pasadena, TX 77507

Waste Information

Name of Waste: Septon crumbs
TCEQ Waste Code #: 00174032
Container Type: yd box
Detailed Description of Process Generating Waste:
Residue crumbs from production of Septon Product
Color: white chips **Odor:** non **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:	Septon Company of America		
Address:	11414 Choate Road		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Darrell Clark	**Title:**	EHS Manager
Phone No:	281-909-5881	**Fax No:**	281-909-5871
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXR000043943		
State I.D.	86840	**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: Septon Crumbs
Detailed Description of Process Generating Waste: Residue crumbs from production of Septon Product

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

Color: White chips **Odor:** none

Specific Gravity (water=1): .91 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☒ Other (explain)
Container Size:	55 gal	____	____	1 yd box

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: 00174032
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >200	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease <1500mg/l	**TOC** <1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Hydrogenated Styrene Butadiene Block Copolymer	99-100	%
Antioxidant/Stabilizer	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.
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: [signature] **Date:** 9/11/07

Printed Name/Title: Darrell Clark, Env. Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-12-07 Approved Rejected

Approval Number: 2345

Additional Information: Drum - ~~33~~ 45.00
1 yd Box $ ~~120.00~~ 100.00
Trans. 150.00 + FSC
OS

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.

Material Safety Data Sheet

SEPTON®

Section I – Company Information
Septon Company of America 11414 Choate Road Pasadena Texas, 77507 Phone Number: 281-909-5800 Fax Number: 281-909-5871 Emergency Number: 281-909-5870 Date of Preparation: December 10, 2002

Section II – Component Information

Component Name	OSHA PEL	ACGIH TLV	CAS Number	%
SEPTON®	**NA**	**NA**	**Mixture**	**100**
Hydrogenated Styrene Butadiene Block Copolymer	**NA**	**NA**		**>99**
Antioxidant/Stabilizer	**NA**	**NA**		**< 1**

Section III – Physical/Chemical Characteristics	
Boiling Point: None	Specific Gravity: (H20 = 1): 0.0.91
Vapor Pressure: None	Vapor Density: None
Flammability: UEL = None LEL = None	Odor: No Odor
Solubility in Water: Negligible	Appearance: White Pellet or Powder
Evaporation Rate: None	Melting Point: None

Section IV – Fire and Explosion Hazard Data	
Flash Point: None	Auto Ignition Temperature: None
Explosive Limits: UEL = None	LEL = None
Firefighting Procedures: Extinguishing Media – Water, Dry Chemical, Resistant Foam, or Carbon Dioxide	
Special Firefighting Procedures: Firefighters should wear a positive pressure NIOSH approved self-breathing apparatus with a full faceplate when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products.	
Unusual Fire and Explosion Hazards: Toxic gases (carbon Monoxide) may form when burned without sufficient oxygen	

EPAHO103000174

Section V – Reactivity and Stability Data
Stability – Stable, Conditions to Avoid – NA, Incompatibility – None
Hazardous Decomposition or By-Products – At processing temperatures, some degree of thermal degradation will occur. Although highly dependant on temperature and environmental conditions, a variety of decomposition products may be present. These range from simple hydrocarbons (methane, propane) to toxic/irritating gases (carbon monoxide, carbon dioxide etc.)

Section VI – Health Hazard Data
Carcinogenicity: No
Emergency and First Aid Procedures: Skin Contact: Wash the affected area under tepid water using a mild soap. If the irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a physician Inhalation: Remove the victim from the contamination immediately to fresh air. Keep the victim warm and quiet. If any symptoms appear, arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible. Eye Contact: Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible. Ingestion: Rinse mouth with water. Give victim one or two glasses of water. If they are conscious, try to get the victim to vomit by having the victim touch the back of their throat with a finger. If they are unconscious, don't give anything to drink and don't make them vomit. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

Section VII – Precautions for Safe Handling and Use
Recommended Handling and Storage: Ground all transfer, blending and dust collection equipment to prevent static sparks. Remove all ignition sources from the material handling, transfer and processing areas where dust may be present. Mechanical and local exhaust should be provided in work areas. Practice good housekeeping practices. Product spilled on walking surfaces may constitute a slipping hazard. Store in a cool, well ventilated location. Keep away from all possible sources of ignition.
Spill and Leakage: Take up mechanically, then place in a chemical waste container. Then ventilate area.

EPAHO103000175

Section VIII – Control Measures
OSHA PEL – None Established, PEL – NA, TVL/TWA – NA, ACGIH – NA. Respiratory Protection: Keep work area well ventilated to avoid inhaling excessive material. Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based upon the form and concentration of contaminate in the air in accordance with OSHA 29 CFR, 1910.134.
Protective Equipment: Protective Clothing: Wear heat protective gloves and clothing if there is a potential contact with heated materials. Eye Protection: Safety glasses meeting ANSI Standard Z87.1 should be worn if there is a possibility of eye contact. Work Hygiene Practices: Practice good personal hygiene after using this material. Use good housekeeping practices.

Section IX – Transporter Information	
Proper Shipping Name:	NA
Un/ID Number:	Non-regulated
Hazard Class:	Not Hazardous by DOT
Labels Required:	None
Packaging Group:	None

This product is not hazardous as defined by the U.S. Occupational Safety and Health Administration (OSHA) under its Hazard Communication Standard (HCS), 29 CFR 1910.1200

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Septon Company of America bears legal responsibility.

EPAHO103000176

Lousianna Pacific (2346) 2346

EPAHO103000177

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/12/2007**

Dear **Ricky Moore**

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 # 2346

Generator: Lousianna Pacific (Silsbee)
Address: 735 Hwy 92 North
Silsbee, TX 77656

Waste Information

Name of Waste: Resin clean up water
TCEQ Waste Code #: 00632191
Container Type:
Detailed Description of Process Generating Waste:
Cleaning out product tanks prior to shut down
Color: varies **Odor:** mild **pH:** 8-12.5
Physical State:
Incompatibilities: alcohols, amines, bases, acids, 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:	Louisiana Pacific		
Address:	P.O. Box 577		
City, State, Zip:	Silsbee, TX 77656		
Contact:	Ricky Moore	Title:	Environmental Technician
Phone No:	409-385-1942	Fax No:	409-385-2448
24/hr Phone:			
U.S. EPA I.D. No:	TXD008073983		
State I.D.	30109	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: Resin Clean Up Water
Detailed Description of Process Generating Waste: Cleaning out of product tanks prior to shut down

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

Color: varies Odor: mild

Specific Gravity (water=1): 1-1.2 Density: 8.4 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): 2 Other: ____
Texas State Waste Code No: 00632191
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >150	pH 8-12.5	Reactive Sulfides NAmg/l	Reactive Cyanides NAmg/l	Solids 1-2%
Oil&Grease <1000mg/l	TOC <1000mg/l	Zinc NAmg/l	Copper NAmg/l	Nickel NAmg/l

EPAHO103000179

SECTION 4: Physical and Chemical Data

COMPONENTS LISTED	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	70-80	%
Rubinate 1840	0-10	%
Cascowax EW-68S	0-10	%
Cascophen OS-753	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.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
alcohols, amines, bases, acids, 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:** 9/6/07

Printed Name/Title: Ricky Moore

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: 10.15/gal

Date: 9-12-07 Approved Rejected

Approval Number: 2346 OL

EPAHO103000180

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.

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☐ 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.

EPAHO103000182

HUNTSMAN
Polyurethanes

Material Safety Data Sheet

MSDS Number: 2289
Revised: 10-NOV-2000

EMERGENCY CONTACTS

Spills, Leaks, Fire or Exposure Call Chemtrec: (800) 424-9300
Medical Emergency Information: (800) 328-6501

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: RUBINATE® 1840
Product Use: Component of a polyurethane.
Company:
Huntsman Polyurethanes (an international business unit of Huntsman International LLC.)
286 Mantua Grove Rd.
West Deptford, NJ 08066-1723

For Polyurethanes product information/assistance:
West Deptford: (800)257-5547 Auburn Hills: (800)563-8624
Canadian Office: (905)678-9150

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	% (w/w)	ACGIH TLV	CAS NO.
Polymeric Diphenylmethane Diisocyanate (polymeric MDI)	100	Not Listed.	9016-87-9
CONTAINS: 4,4'-Diphenylmethane Diisocyanate (4,4' MDI) (approx. 45%)		0.005 ppm	101-68-8
MDI isomers/oligomers		Not Listed.	9016-87-9

This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

Health Hazards: Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted MDI.

Physical Hazards: Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

Appearance: Dark brown, viscous liquid.
Odor: Slightly musty.

Read the entire MSDS for a more thorough assessment of the hazard information on this product.

****

SECTION 4 - FIRST AID MEASURES

General: In case of accident or if you feel unwell, seek medical advice IMMEDIATELY (show the label where possible).

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention. Treatment is symptomatic for primary irritation or difficulty in breathing. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

Skin Contact: Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. Some organic materials such as corn oil or propylene glycol are effective in decontaminating MDI from the skin when applied immediately. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.

Eye Contact: Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

Ingestion: Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

Note to Physicians: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

SECTION 5 - FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: Containers may burst under intense heat. Due to reaction with water, a hazardous build-up of pressure could result if contaminated containers are re-sealed.

Extinguishing Media: Water, carbon dioxide, dry chemical, or appropriate foam. If water is used, very large quantities are required. Reaction between water and hot isocyanate may be vigorous. Contain run-off water with temporary barriers.

Fire Fighting Procedures: As appropriate for surrounding materials/equipment.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and full protective clothing (Bunker gear).

Flash Point: 425°F (218°C) (COC)
Flammable Limits (Lower): Not available.
Flammable Limits (Upper): Not available.
Auto Ignition Temperature: 240°C (464°F) (4,4'- Diphenylmethane Diisocyanate)
Decomposition Temperature: 646°F (341.1°C)
Rate of Burning: Not available.
Explosive Power: None.
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.
Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides and some HCN.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For major spills call Chemtrec (800-424-9300).

Spills, Leaks, or Releases: Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

Contain and absorb large spillages onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Test atmosphere for MDI. Neutralize small spillages with decontaminant. Remove and properly dispose of residues. (See Section 13 for disposal considerations.) Notify applicable government authorities if release is reportable. The CERCLA RQ for MDI is 5,000 lbs (see CERCLA in Section 15).

Preparation of Decontamination Solution: Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's material safety data sheets when preparing and using solution.

Use of Decontamination Solution: Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten the bungs. Mixing with wet earth is also effective, but slower.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. (See Section 8-- Exposure Control for details.)

Storage Requirements: Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from moisture. Due to reaction with water, producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Do not reseal contaminated containers. Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys or galvanized surfaces.

Storage Temperature: Ideal storage temperature is 15-38°C (60-100°F).

Keep stocks of decontaminant (See Section 8) readily available.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

PREVENTIVE MEASURES:

Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of "Industrial Ventilation, a manual of Recommended Practice."

Personal Protective Equipment:

Eye Protection: Chemical safety goggles. If there is a potential for splashing, use a full face shield.

Skin Protection: The following protective materials are recommended:
Gloves - neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long term use.
Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

Respiratory Protection: When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134).

EXPOSURE GUIDELINES:

Medical supervision of all employees who handle or come in contact with respiratory sensitizers is recommended. Persons with respiratory problems including asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or skin allergies should be evaluated for their suitability of working with this product. Once a person is diagnosed as sensitized, no further exposure to the material that caused the sensitization should be permitted.

HAZARDOUS INGREDIENT(S):

4,4'-Diphenylmethane Diisocyanate:

ACGIH TLV	0.05 mg/M³ (8-hour, 40 hours/week)
OSHA PEL CEILING	0.20 mg/M³
NIOSH REL/TWA	0.05 mg/M³ (10-hour, 40 hours/week)
NIOSH REL/CEILING	0.20 mg/M³ (10-minute)

NOTE: The Occupational Exposure Limits listed for isocyanates do not apply to previously sensitized individuals.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Alternate Name(s): formerly RUBINATE MF-184
Chemical Name: Not applicable (mixture).
Chemical Family: Diisocyanate.
Molecular Formula: Not applicable (mixture).
Appearance: Dark brown, viscous liquid.
Odor: Slightly musty.
Odor Threshold: 4.0 mg/M³ (4,4'-Diphenylmethane Diisocyanate)
pH: Not applicable.
Flash Point: 425°F (218°C) (COC)
Vapor Pressure (mm Hg at 20°C): Approx. 4×10^{-6}
Vapor Density (Air=1): 8.5
Boiling Point: Not applicable.
Melting Point: Not available.
Solubility (Water): (Reacts with water)
Solubility (Other): Soluble in most organic solvents.
Specific Gravity: 1.2
Evaporation Rate: Not available.

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Decomposition Products: Highly unlikely under normal industrial use. See Section 5.
Chemical Stability: Stable at room temperature.
Conditions to Avoid: Avoid high temperatures. Avoid freezing.
Incompatibility with other Substances: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids. The reaction with water is very slow under 50°C (122°F) but is accelerated at higher temperatures.

Hazardous Polymerization: Polymerization may occur at elevated temperatures in the presence of alkalies, tertiary amines and metal compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

Polymeric MDI:

Oral LD50 (rat) > 5,000 mg/kg
Dermal LD50 (rabbit) > 5,000 mg/kg

POTENTIAL HEALTH EFFECTS:

Inhalation: This product is a respiratory irritant and potential respiratory sensitizer. Inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization and lung injury. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing and/or flu-like symptoms. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. In a single evaluation of 5 men occupationally exposed to MDI and hydrocarbon solvent vapors under conditions where adequate ventilation or other safety

precautions were not used, neuropsychologic findings were attributed to MDI.

Skin Contact: Moderate irritant. Repeated and/or prolonged contact may cause skin sensitization. There is limited evidence from animal studies that skin contact may play a role in respiratory sensitization. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

Eye Contact: The aerosol, vapor or liquid will irritate human eyes following contact.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Based on the acute oral LD50, this product is considered practically non-toxic by ingestion.

Chronic Effects: A study was conducted where groups of rats were exposed for 6 hours/day, 5 days/week for a lifetime to atmospheres of respirable polymeric MDI aerosol at concentrations of 0, 0.2, 1 or 6 mg/M³. No adverse effects were observed at 0.2 mg/M³. At the 1 mg/M³ concentration, minimal nasal and lung irritant effects were seen. Only at the top concentration (6.0 mg/M³) was there an increased incidence of a benign tumor of the lung (adenoma). One malignant pulmonary tumor (adenocarcinoma) was seen in the 6.0 mg/M³ group. MDI administration to rats in this study did not change the distribution and incidence of tumors from those seen in control animals. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

There are reports that excessive chronic exposure to diisocyanates may result in permanent decrease in lung function.

Carcinogenicity: The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

Teratogenicity and Fetotoxicity: No birth defects were seen in two independent animal (rat) studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational limits.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate and Distribution: It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

Persistence and Degradation: Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

Toxicity: Polymeric MDI.
LC50 (Zebra Fish) > 1000 mg/l (At the highest level tested of 1000 mg/l there were no deaths.)
EC50 (Daphnia magna) (24 hour) > 1000 mg/l
EC50 (E. Coli) > 100 mg/l

SECTION 13 - DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible.

Disposal should be in accordance with local, state, provincial or national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a decontaminant solution (See Section 6). The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

SECTION 14 - TRANSPORT INFORMATION

DOT: Single containers less than 5,000 lbs. are not regulated. Single containers with 5,000 lbs. or more of 4,4'-MDI are regulated as: Other Regulated Substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate), 9, NA3082, PGIII, RQ.

Transportation Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)

TDG: Not Regulated.

IMO: Not Regulated.
IATA/ICAO Class: Not regulated.

SECTION 15 - REGULATORY INFORMATION

USA CLASSIFICATION:

OSHA Classification: This product is classified as a hazardous material under the criteria outlined in the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200).

TSCA (Toxic Substances Control Act) Regulations: All ingredients are on the TSCA Chemical Substance Inventory.

EPCRA Section 313 (40 CFR 372): This product contains the following chemical(s) subject to reporting requirements: 100% Diisocyanate compounds (Category Code N120).

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): 4,4-Methylene diphenyl diisocyanate (CAS 101-68-8) has a 5,000 lb. RQ (reportable quantity). Any spill or release above the RQ must be reported to the National Response Center (800-424-8802). The % of 4,4'-MDI in this product is listed in Section 2 of this MSDS.

This product does not contain nor is it manufactured with ozone depleting substances.

Other Regulations/Legislation which apply to this product: Massachusetts Right-to-Know, Pennsylvania Right-to-Know, New Jersey Right-to-Know, CERCLA.

CANADIAN CLASSIFICATION:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

Controlled Products Regulations (WHMIS) Classification: D-1A; D-2A and D-2B.

CEPA / Canadian Domestic Substances List (DSL): The substance(s) in this product is/are on the Canadian Domestic Substances List (CEPA DSL).

SECTION 16 - OTHER INFORMATION

Glossary: ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

For Your Protection: Huntsman Polyurethanes warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of Huntsman Polyurethanes for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

MATS Number:
MATS Index:

Prepared By: Polyurethanes Applied Toxicology/Regulatory Services (856)423-6464

HEXION
Specialty Chemicals

MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

DESCRIPTION: Cascowax EW-58S

1. Chemical Product and Company Identification

DESCRIPTION: **Cascowax EW-58S**
PRODUCT CODE: 354827GEN
PRODUCT TYPE: Wax Emulsion
APPLICATION: Component in Industrial Formulations

This MSDS covers the following product trade names: Cascowax EW-58H, EW-58S, EW-58SB, EW-58T, EW-55T, EW-58MS

Manufacturer/Supplier Information

MSDS prepared by:
Hexion Specialty Chemicals, Inc.
155 West A Street, Bldg. A-1
Springfield, OR
97477

For Emergency Medical Assistance
Call Health & Safety Information Services
1-866-303-6949

For additional health and safety or regulatory information, call (541)744-3256.

2. Hazards Identification

2.1 Emergency Overview

Appearance: White to light cream opaque liquid
Odor: No putrid odor

CAUTION!
May cause eye irritation.

HMIS Rating

HEALTH = 1 (slight)
FLAMMABILITY = 0 (minimal)
REACTIVITY = 0 (minimal)

HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for the rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

2.2 Potential Health Effects

Immediate Hazards

EPAHO103000191

INGESTION:	Not expected to be harmful under normal conditions of use.
INHALATION:	Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.
SKIN:	May cause irritation on prolonged or repeated contact.
EYES:	May cause irritation on prolonged or repeated contact.

Delayed Hazards

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

3. Composition, Information on Ingredients

No hazardous ingredients known to company.

4. First Aid Measures

INGESTION:	If accidentally swallowed, dilute by drinking large quantities of water. If the individual is drowsy or unconscious, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for advice on whether to induce vomiting or for any other additional treatment directions.
INHALATION:	Remove to fresh air.
SKIN:	In case of irritation, flush with water.
EYES:	Immediately flush eyes with plenty of water. Call a physician if irritation persists.

5. Fire Fighting Measures

Suitable Extinguishing Media: In case of fire, water should be used to keep fire-exposed containers cool.

Will not burn unless water has evaporated. Dried material may burn.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse vapors and flush spill area. Prevent runoff from entering waterways or sewers. Use appropriate Personal Protective Equipment (PPE).

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. Always use appropriate Personal Protective Equipment (PPE).

EPAHO103000192

INHALATION:	Avoid prolonged or repeated breathing of vapor.
SKIN:	Avoid prolonged or repeated contact with skin and clothing.
EYES:	Avoid prolonged or repeated contact with eyes.

7.2 Storage

Harmed by freezing. Cannot be made usable after freezing.
Storage life is 2-4 months at 70°F (21°C), less at higher temperatures.

8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

None established

8.2 Exposure Controls

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.3 Personal Protection

Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and Chemical Properties

Appearance	White to light cream opaque liquid
Odor	No putrid odor
Odor threshold	Not available
pH	8.0 - 9.5
Boiling point, 760 mm Hg	Approx. 100 °C (212 °F)
Flash point	Not applicable
Evaporation rate	Not available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	Not available
Vapor density	Less than 1
Specific gravity	Approx. 1.0
Solubility in water	Not available
Octanol/water partition coefficient	Not available
Autoignition temperature	Not applicable

10. Stability and Reactivity

Chemical Stability

Normally stable as defined in NFPA 704-12(4-3.1).

Hazardous Decomposition Products

Oxides of carbon.

Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur .

11. Toxicological Information

See Section 3 Hazards Identification Information.

12. Ecological Information

Not determined

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

Not determined.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Not determined.

14.3 Other Regulations

Not determined for RID/ADR, ADNR, IMDG-Code, ICAO /IATA-DGR.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazards Communication Standard 29CFR1910.1200

This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Does not meet any hazard category

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Not a controlled product

Canadian Environmental Protection Act (CEPA)

This product contains one or more chemical substances not included on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

EPAHO103000195

Disclaimer

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

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HEXION
Specialty Chemicals

MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

DESCRIPTION: Cascophen OS-753

1. Chemical Product and Company Identification

DESCRIPTION: **Cascophen OS-753**
PRODUCT CODE: 354705
PRODUCT TYPE: Liquid PF Resin
APPLICATION: Oriented Strandboard Resin

Part of the CASCO® Brand of Adhesives and Resins from Hexion

Manufacturer/Supplier Information

MSDS prepared by:
Hexion Specialty Chemicals, Inc.
155 West A Street, Bldg. A-1
Springfield, OR
97477

For Emergency Medical Assistance
Call Health & Safety Information Services
1-866-303-6949

For additional health and safety or regulatory information, call (541)744-3256.

2. Hazards Identification

2.1 Emergency Overview

Appearance: Clear, reddish-brown liquid
Odor: Slight aromatic

CAUTION!
Will polymerize at high temperatures with some evolution of heat.
Hazardous polymerization may occur.
Causes eye irritation.

HMIS Rating

HEALTH = 2 (moderate)
FLAMMABILITY = 0 (minimal)
REACTIVITY = 1 (slight)
CHRONIC = *

HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for the rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

2.2 Potential Health Effects

Immediate Hazards

EPAHO103000197

INGESTION:	Not expected to be harmful under normal conditions of use. If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.
INHALATION:	Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.
SKIN:	May cause irritation on prolonged or repeated contact.
EYES:	Causes irritation.

Delayed Hazards

50-00-0 Formaldehyde

May cause cancer. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29CFR 1910.1048. Rats chronically exposed to 14 ppm formaldehyde contracted nasal cancer. The National Toxicology Program (NTP) has listed formaldehyde as a probable human carcinogen. The International Agency for Research on Cancer (IARC) has concluded formaldehyde is carcinogenic to humans.

Safe handling and use instructions are provided in this MSDS and in the OSHA Formaldehyde Workplace Standard at 29CFR1910.1048. OSHA has identified 0.5 ppm as the "Action Level". Please review and understand the guidance contained in this MSDS and refer to the OSHA Formaldehyde Standard for regulatory requirements that may be applicable to your operation and use.

For further information and a review of various studies, go to www.osha.gov/SLTC/formaldehyde, www.iarc.fr and other authoritative websites.
May cause allergic skin reaction. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that preexisting respiratory and skin disorders may be aggravated by exposure.

3. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

		% by weight
50-00-0	***Formaldehyde**	**0.01 - 0.1**
40798-66-0	**Phenol-Formaldehyde Polymer Sodium Salt**	**10.0 - 30.0**

Any applicable Canadian trade secret numbers will be listed in Section 15.2.

4. First Aid Measures

INGESTION:	If accidentally swallowed, do not induce vomiting. If the individual is rapidly losing consciousness, unconscious or convulsing, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.
INHALATION:	If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a physician.
SKIN:	Flush with plenty of water. Remove contaminated clothing. Call a physician if irritation persists.

EPAHO103000198

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact with entire surface of eyes and lids. Call a physician.

5. Fire Fighting Measures

Suitable Extinguishing Media: In case of fire, water should be used to keep fire-exposed containers cool. Combustion products may include oxides of carbon and nitrogen.

Will not burn unless water has evaporated. Dried material may burn.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse vapors and flush spill area. Prevent runoff from entering waterways or sewers. Use appropriate Personal Protective Equipment (PPE).

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoid prolonged or repeated breathing of vapor.

SKIN: Avoid prolonged or repeated contact with skin and clothing.

EYES: Avoid contact with eyes.

7.2 Storage

Store at 23°C (73.4°F) or below. Keep tightly closed.

8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

50-00-0	**Formaldehyde**			
ACGIH TLV	Ceiling	0.3 ppm	0.37 mg/m3	A2 - Suspected Human Carcinogen; SEN
OSHA PEL	8-hr TWA	0.75 ppm	0.9 mg/m3	
	STEL (15 min)	2 ppm	2.5 mg/m3	
40798-65-0	**Phenol-Formaldehyde Polymer Sodium Salt**			
ACGIH TLV	None established			
OSHA PEL	None established			

8.2 Exposure Controls

EPAHO103000199

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.3 Personal Protection

Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and Chemical Properties

Appearance	Clear, reddish-brown liquid
Odor	Slight aromatic
Odor threshold	Not available
pH	10.5 - 11.5 @25 °C (77 °F)
Boiling point, 760 mm Hg	Approx. 102 °C (216 °F)
Flash point	Not applicable
Evaporation rate	Approx. 0.4 (Butyl Acetate = 1)
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	Approx. 22 mm Hg @25 °C (77 °F)
Vapor density	Not available
Specific gravity	1.2400 - 1.2500
Solubility in water	Infinite
Octanol/water partition coefficient	Not available
Autoignition temperature	Not applicable
Viscosity	Approx. 100 cPs @25 °C (77 °F) Brookfield
Typical % solids	Approx. 53.00 % (m)

10. Stability and Reactivity

Chemical Stability

Normally stable, but will polymerize at high temperatures with some evolution of heat.

Incompatible Materials

Oxidizers, acids

Hazardous Decomposition Products

CO, CO2, aldehydes (including formaldehyde), oxides of nitrogen, particulate matter and other organic compounds.

Possibility of Hazardous Reactions

Hazardous polymerization may occur.

EPAHO103000200

11. Toxicological Information

INHALATION: A similar product was found to be non-toxic by inhalation when tested as described in 16 CFR Part 1500.3 (c)(1) and (2).

SKIN: A similar product was not a primary irritant (primary skin irritation index less than 5.0/8.0) when tested as described in 16 CFR Part 1500.41.

EYES: A similar product was severely irritating when tested as described in 16 CFR Part 1500.42.

50-00-0 Formaldehyde
LC50: rat=0.59 mg/l (Sax)
LD50: Oral-rat= 800 mg/kg (Merck); Skin-rabbit= 270 mg/kg (Sax)
40798-65-0 Phenol-Formaldehyde Polymer Sodium Salt
LC50: Not available
LD50: Not available

12. Ecological Information

No data for ecotoxicity has been found. Effects are expected to be minimal. Phenol-formaldehyde polymers have a very low rate of biodegradation. Bioaccumulation is expected to be minimal. Product is initially a mobile liquid which will solidify on aging. Unreacted monomer may be leached into ground water even after normal curing has occurred.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Regulation: Non regulated

14.2 Canadian Transportation of Dangerous Goods (TDG)

Regulation: Non regulated

14.3 Other Regulations

- ***ADR/RID***
  Regulation: Non regulated
- ***IMO/IMDG***
  Regulation: Non regulated
- ***IATA* (Commercial)**
  Regulation: Non regulated
- ***IATA* (Passenger)**

Regulation: Non regulated

• *ADNR*

Regulation: Non regulated

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazards Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Reactivity hazard
Immediate health hazard
Delayed health hazard

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Class D2B

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

EPAHO103000202

None required.

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

Disclaimer

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

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EPAHO103000203

BW Services
#2348

2348

EPAHO10300204

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/13/2007**

Dear **Brandon Dougles**

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 # 2348

Generator: BW Services
Address: 1100 Wayne Drive
Angleton, TX 77515

Waste Information

Name of Waste: Waste glycerine
TCEQ Waste Code #: 00062191
Container Type:
Detailed Description of Process Generating Waste:
Unused product cleaned from railcars.
Color: yellow to clear **Odor:** bland **pH:** 4-9
Physical State:
Incompatibilities: oxidizers, acids, chromium trioxide, potassium chlorate, potassium permanganate
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

DB

SECTION 1: Generator Information

Company:	BW Services		
Address:	1100 Wayne Dr.		
City, State, Zip:	Angleton, TX 77515		
Contact:	Brandon/Connie	**Title:**	Management
Phone No:	979-848-8800	**Fax No:**	979-848-9990
24/hr Phone:	979-848-8800		
U.S. EPA I.D. No:	TXD086467800		
State I.D.	30207	**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: Waste Glycerine
Detailed Description of Process Generating Waste: Unused product cleaned from railcars.

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

Color: Yellow-Clear **Odor:** Bland

Specific Gravity (water=1): 1-1.3 **Density:** 8-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: 00062191
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Glycerine

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

Flash Point >200	**pH** 4-9	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-3%
Oil&Grease Namg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

SEP-12-2007 12:27 From: To:713 676 1676 P.2/26

EPAHO103000206

SECTION 4: Physical and Chemical Data

COMPONENTS	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Glycerine	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.
MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers, Acids, Chromium Trioxide, Potassium Chlorate, Potassium Permanganate

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: Brandon White **Date:** 9-12-07

Printed Name/Title: Brandon White VP

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert R Lopez

Date: 9-13-07 Approved Rejected

Approval Number: 2348

Process Facility Information:

$65/dm

Class 1 Sludge Box

DL

SEP-12-2007 12:27 From: To:713 676 1676 P.3/26

EPAHO103000207

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
- ☐ Incinoration 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 groundwarer 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

EPAHO103000208

(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.

EPAHO103000209

NATY 50169

OK

P&G Chemicals

MATERIAL SAFETY DATA SHEET

MSDS Number: GLYC306-4
Supersedes: GLYC306-3

Revision Date: January 5, 2005
Issue Date: November 30, 2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- **Product identification**

  Synonyms/Trade Names: Glycerol / **Glycerine, Technical Grade**

- **Product uses**
  Multiple uses including as emulsifier, emollient, plasticizer, humectant, anti-freeze, in surface coatings and paints. Intermediate for making glycerol derivatives.

- **Company/undertaking identification**

  North America: The Procter & Gamble Company
  Procter & Gamble Chemicals
  Sharon Woods Technical Center
  11530 Reed Hartman Highway
  Cincinnati, Ohio 45241

  Department issuing MSDS: Product Safety and Regulatory Affairs
  1-800-477-8899

- **Emergency Telephone:** CHEMTREC 1-800-424-9300 U.S. and Canada
  1-703-527-3887 For calls originating elsewhere

  U.S. Emergency, Quality or Service Issues: Call Customer Service
  1-800-477-8899 or 513-626-6882

2. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS No.	Wt/Wt %	EC-No.
1, 2, 3-Propanetriol	56-81-5	99 - 100	2002895

Occupational exposure limits, if applicable, are listed in Section 8
LC/LD50 information is listed in Section 11.

CES sludge Box

1Drum

3. HAZARDS IDENTIFICATION

- Potential Health Effects:

  Eye - Concentrated solutions may cause mild transient irritation.

  Skin - Unlikely to be irritant. Heated product may cause thermal burns if contacted.

  Inhalation - Not applicable at ambient temperature. Glycerine mist may be irritative to respiratory tract.

  Ingestion - Unlikely to be harmful unless excessive amount.

- Physical/Chemical Hazards: Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

- Environmental Hazards: Product is biodegradable

4. FIRST AID MEASURES

- Eye - Immediately flush with copious amounts of water. Get medical attention if irritation persists.
- Skin - Wash thoroughly with plenty of water and soap.
- Inhalation - Remove to fresh air.
- Ingestion - Remove material from mouth. Drink plenty of water. If large amount swallowed or symptoms develop get medical attention.

5. FIRE FIGHTING MEASURES

- Extinguishing media: Use water, alcohol resistant foam, CO_2 or dry chemical.
- Unsuitable extinguishing media: Not applicable
- Flash Point and method: 320° F (160° C) PMCC
- Explosive limits in air: Not applicable
- Auto-ignition temperature: ~739° F (~393° C)
- Sensitivity to mechanical impact/static discharge: Not available
- Special Protective Equipment: Wear self-contained breathing apparatus and full protective clothing.
- Other Fire Fighting Considerations: Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.
- Exposure hazards: During burning poisonous acrolein may be formed.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions: Wear respirator, suitable gloves and eye/face protection.
- Environmental Precautions: Minimize contamination of drains, surface and ground waters.
- Procedures for Spill/Leak Clean-up: Transfer product to suitably labeled containers for disposal at an approved site. Absorb liquid spillage onto inert material (e.g. sand).
  Residues and small spillages may be washed away with water and detergent.

Refer to Section 8 for additional personal protection information.
Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE

- Handling: No special precautions required, but avoid eye and skin contact as part of normal industrial hygiene. Prevent formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures.
- Storage: Store in clean tight containers to prevent moisture pickup from air. Can be stored in aluminum, stainless steel, fiberglass or resin lined steel vessels.
- Other Recommendations: Avoid contact with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate.

Refer to Section 6 for clean-up of spillages.
Refer to Section 13 for disposal considerations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- General Precautions: Good industrial hygiene should be followed. Avoid breathing mist.
- Exposure Limit Values - glycerine:

Canada:
Alberta – TWA 10 mg/m^3
British Columbia – TWA 10 mg/m^3
Ontario – TWA 10 mg/m^3
Quebec – TWA 10 mg/m^3
Mexico – TWA 10 mg/m^3
United States – ACGIH – Glycerine mist - TLV-TWA 10 mg/m^3
OSHA Z-1 PEL Glycerine mist, respirable fraction - 5 mg/m^3
OSHA Z-1 PEL Glycerine mist, total dust - 15 mg/m^3

- Exposure Controls:

Engineering Controls: Ventilation: Local exhaust - preferred
Mechanical (general) acceptable
Provide ventilation to meet exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION - CONTINUED

Personal Protective Equipment:

Eye - None required, although eye protection is recommended as part of good industrial hygiene.

Skin - Protective gloves: None required with normal use.

Inhalation - An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Other Controls: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

- General Information:

Physical State: Liquid
Appearance: Yellow to water white, clear
Odor: Bland odor; sweet taste
Odor Threshold: Not available

- Important health, safety and environmental information:

pH: Neutral
Boiling point/Boiling range: 554° F (290° C) @ 760 mm Hg (1013 hPa)
Flash Point & Method: 320° F (160° C) PMCC
Flammability (solid, gas): Not available
Explosive properties: Not to be expected
Oxidising properties: Not to be expected
Vapor pressure: @ 122° F (50° C) @ 0.0025 mm Hg (0.0033 hPa)
Relative density: 1.26 @ 20° C
Freezing point: Not available
Melting Point: 64.4° F (18° C)
Solubility:
Water solubility: Complete @ 72° F
Fat solubility (solvent-oil to be specified): Miscible with ethanol
Slightly soluble in acetone
Insoluble in ether and in chloroform
Partition coefficient: Log K_{ow} −1.76
Viscosity: 1410 mPa s at 20° C
Vapor density: Not available
Evaporation Rate (nBuOAc=1): Not available
Explosive Limits: Not applicable
Auto ignition temperature: 739° F (393° C)
Coefficient of water/oil distribution: Not available

10. STABILITY AND REACTIVITY

- Stability: Stable under normal operational procedures.
- Conditions to Avoid: None identified.
- Materials to Avoid: Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.
- Hazardous Decomposition Products: Does not decompose up to 204° C (400° F) Thermal decomposition may release acrolein.
- Hazardous Polymerization: No hazardous polymerization reactions.

11. TOXICOLOGICAL INFORMATION

IRRITATION DATA	
Skin, rabbit	Not irritating
Eye, rabbit	Not irritating

TOXICITY DATA	
LD_{50} oral, rat	>2 g/kg

12. ECOLOGICAL INFORMATION

- Ecotoxicity:

Carassius auratus (Goldfish)	24h LC_{50} >5,000 mg/L
Leuciscus idus (Golden Orfe)	48h LC_0 >250 mg/L
Oncorhynchus mykiss (Rainbow trout)	96h LC_{100} = 51,000 – 57,000 mg/L
Daphnia magna	24h EC_{50} >10,000 mg/L
Daphnia magna	24h EC_0 >500 mg/L

Microorganisms

Chlimonas paramaecium	48h NOEC >10,000 mg/L
Entosiphon sulcatum	72h NOEC 3200 mg/L
Pseudomonas putida	16h NOEC >10,000 mg/L
Uronema parduzci	20h NOEC >10,000 mg/L

Algae

Microcystis aeruginosa	8d NOEC 2900 mg/L
Scenedesmus quadricauda	8d EC0 >10,000 mg/L

- Mobility:
  Low potential for sorption to soil. Glycerol will partition primarily to water.
- Persistance and degradability:
  Readily biodegradable (OECD 301)
- Bioaccumulative potential:
  BCF: 3.162 (calculated)

CES 2349
#2349

EPAHO10300021S

COPY

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/13/2007**

Dear

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 # 2349

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Acetic Acid
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Color: Clear / colorless **Odor:** Pungent, Vinegar-like **pH:** Acidic
Physical State:
Incompatibilities: see MSD
Safety Related Data/Special Handling:
see MSDS

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.

THIS IS REALLY A PRODUCT PROFILE

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: CES ENVIRONMENTAL SERVICES, INC
Address: 4904 GRIGGS RD
City, State, Zip: HOUSTON, TX, 77021
Contact: Title:
Phone No: 713-676-1460 Fax No: 713-676-1676
24/hr Phone:
U.S. EPA I.D. No: NA
State I.D. NA SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: N/A - VARIOUS CUSTOMERS
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: ACETIC ACID
Detailed Description of Process Generating or Producing the Material / Product: ____

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

Color: Clear / Colorless Odor: PUNGENT, Vinegar like

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

Layers: ☑ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): ____ Other: ____

Proper U.S. DOT Shipping Name: RQ ACETIC ACID, CORROSIVE
Class: 8 UN/NA: UN2789 PG: II RQ: 5000LBS

Flash Point	pH Acidic	N/A	N/A	Solids 0 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

EPAHO103000218

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
ACETIC ACID	30 - 99%	
WATER	1 - 70%	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

—— See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

—— MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— See MSDS

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 **Date:** 9-13-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: [signature]

Date: 9-13-07 Approved Rejected

Approval Number: 2349

Process Facility Information:

Please test water by distillation + Specific gravity. If % ACETIC IS LESS THAN 95, Please contact ~~Eric~~ Kelli.

Please also note color, Suspended solids, + odor on inbound report.

EPAHO103000219

Material Safety Data Sheet

SECTION 1 – Product and Company Identification
SECTION 2 – Composition and Information on Ingredients Component
SECTION 3 – Hazards Identification
SECTION 4 – First Aid Measures
SECTION 5 – Fire Fighting Measures
SECTION 6 – Accidental Release Measures
SECTION 7 – Handling and Storage
SECTION 8 – Exposure Controls / Personal Protection
SECTION 9 – Physical and Chemical Properties
SECTION 10 – Stability and Reactivity
SECTION 11 – Toxicological Information
SECTION 12 – Ecological Information
SECTION 13 – Disposal Considerations
SECTION 14 – Transport Information
SECTION 15 – Regulatory Information
SECTION 16 – Other Information

SECTION 1 – Product and Company Identification

Product Name:	ACETIC ACID
Manufacturer:	CES ENVIRONMENTAL SERVICES, INC. 4904 GRIGGS ROAD HOUSTON, TX 77021
For More Information Call:	713 -676 -1460 Technical Service Monday – Friday 8:00 AM – 5:00 PM
Incase of Emergency Call:	1 -800 -424 -9300 CHEMTREC (USA) 1 -613 -996 -6666 CANUTEC (CANADA) 24 HOURS / DAY and 7 DAYS / WEEK
Synonym	NONE
Material Uses	INDUSTRIAL
Chemical Family	ACID

SECTION 2 – Composition and Information on Ingredients Component

	CAS NUMBER	PERCENT BY WEIGHT
Acetic Acid	64 – 19 – 7	
Water	7732 – 18 – 5	

EPAHO103000220

SECTION 3 – Hazards Identification

Physical State and Appearance	LIQUID
Emergency Overview	DANGER! CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF SWALLOWED. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS and/or CORNEA, TEETH.
Routes of Entry	EYE CONTACT, INHALATION, INGESTION
Potential Acute Health Effects	**EYES** HAZARDOUS IN CASE OF EYE CONTACT (CORROSIVE). CAUSES EYE BURNS **SKIN** HAZARDOUS IN CASE OF SKIN CONTACT (CORROSIVE), SKIN CONTACT PRODUCES BURNS **INHALATION** HAZARDOUS IN CASE OF INHALATION (LUNG CORROSIVE) **INGESTION** HAZARDOUS IN CASE OF INGESTION
Potential Chronic Health Effects	**CARCINOGENIC** THIS MATERIAL IS NOT KNOWN TO CAUSE CANCER IN ANIMALS OR HUMANS, FOR ADDITIONAL INFORMATION SEE TOXICOLOGICAL INFORMATION (SECTION 11)
Medical Conditions Aggravated by Overexposure	REPEATED OR PROLONGED CONTACT WITH SPRAY MIST MAY PRODUCE CHRONIC EYE IRRITATION AND SEVERE SKIN IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION. REPEATED EXPOSURE TO A HIGHLY TOXIC MATERIAL MAY PRODUCE GENERAL DETERIORATION OF HEALTH BY AN ACCUMULATION IN ONE OR MANY HUMAN ORGANS.

SECTION 4 – First Aid Measures

Eye Contact	CHECK FOR AND REMOVE ANY CONTACT LENSES. INCASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. COLD WATER MAY BE USED. GET MEDICAL ATTENTION IMMEDIATELY.
Skin Contact	IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. COLD WATER MAY BE USED. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. GET MEDICAL ATTENTION IMMEDIATELY.
Inhalation	IF INHALED, MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.
Ingestion	IF SWALLOWED, DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 – Fire Fighting Measures

Flammability of the Product	NON - FLAMMABLE
Auto – ignition	NOT APPLICABLE
Temperature Flash Points	NOT APPLICABLE
Flammable Limits	NOT APPLICABLE
Products of Combustion	NOT APPLICABLE
Fire Hazards in Presence of Various Substances	NOT APPLICABLE
Explosion Hazards in Presence of Various Substances	RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF **STATIC DISCHARGE**: NONE RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF **MECHANICAL IMPACT**: NONE
Fire Fighting Media and Instructions	NOT APPLICABLE
Protective Clothing (Fire)	NOT APPLICABLE
Special Remarks on Fire Hazards	NOT AVAILABLE
Special Remarks on Explosion Hazards	NOT AVAILABLE

SECTION 6 – Accidental Release Measures

Small Spill and Leak	DILUTE WITH WATER AND MOP-UP, OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. IF NECESSARY **NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF SODIUM CARBONATE.**
Large Spill and Leak	STOP LEAK IF WITHOUT RISK. ABSORB WITH DRY EARTH, SAND HER NON-COMBUSTIBLE MATERIAL. DO NOT GET WATER INSIDE INER. DO NOT TOUCH SPILLED MATERIAL. USE WATER SPRAY IN TO DIVERT VAPOR DRIFT. USE WATER SPRAY TO REDUCE. PREVENT ENTRY INTO SEWERS, BASEMENTS OR CONFINED AREAS; DIKE IF NEEDED. CALL FOR ASSISTANCE ON DISPOSAL **NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF SODIUM CARBONATE.** BE CAREFUL THAT THE PRODUCT IS NOT PRESENT AT A CONCENTRATION LEVEL ABOVE TLV. CHECK TLV ON THE MSDS AND WITH LOCAL AUTHORITIES.
Spill Kit Information	THE FOLLOWING EM SCIENCE SPILLSOLV (TM) ABSORBENT IS RECOMMENDED FOR THIS PRODUCT: **SX1310 ACID TREATMENT KIT**

SECTION 7 – Handling and Storage

Handling	DO NOT INGEST. DO NOT BREATHE VAPOR OR MIST. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.
Storage	KEEPCONTAINER TIGHTLY CLOSED. KEEP CONTAINER IN A COOL, WELL – VENTILATED AREA.

SECTION 8 – Exposure Controls / Personal Protection

Engineering Controls	PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THE RESPECTIVE THRESHOLD LIMIT VALUE.
Personal Protection	**RESPIRATORY** VAPOR RESPIRATOR. BE SURE TO USE AN APPROVED CERTIFIED RESPIRATOR OR EQUIVALENT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. **EYES** FACE SHIELD **HANDS** GLOVES **BODY** FULL SUIT **FEET** BOOTS
Protective Clothing (Pictograms)	
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.**
Product Name	**ACETIC ACID**
Exposure Limits	**ACGIH (United States, 1994)** STEL: 37 mg/m3 STEL: 15 ppm TWA: 25 mg/m3 TWA: 10 ppm **NIOSH REL (United States, 1994)** STEL: 37 mg/m3 STEL: 15 ppm TWA: 25 mg/m3 Period: 10 hours TWA: 10 ppm Period: 10 hours **OSHA Final Rule (United States, 1989)** **STEL: 25 mg/ m3** **TWA: 10pp**
Product Name	**WATER**
Exposure Limits	NOT AVAILABLE

SECTION 9 – Physical and Chemical Properties

Odor	VINEGAR – LIKE (STRONG)
Color	CLEAR (COLORLESS)
Physical State / Appearance	LIQUID
Molecular Weight	NOT APPLICABLE
Molecular Formula	NOT APPLICABLE
pH	ACIDIC
Boiling / Condensation Point	THE LOWEST KNOWN VALUE IS 99.9C (211.8F) (WATER) WEIGHTED AVERAGE: 103.49C (218.3F)
Melting / Freezing Point	MAY START TO SOLIDIFY AT 16.72C (62.1F) BASED ON DATA FOR: ACETICACID. WEIGHTED AVERAGE: 3.26C (37.9F)
Specific Gravity	THE ONLY KNOWN VALUE IS 1.051 (WATER = 1) (ACETIC ACID)
Vapor Pressure	NOT AVAILABLE
Vapor Density	THE HIGHEST KNOWN VALUE IS 2.1 (AIR = 1) (ACETIC ACID)

Odor Threshold	NOT AVAILABLE
Evaporation Rate	THE HIGHEST KNOWN VALUE IS 1.34 (ACETIC ACID) WEIGHTED AVERAGE: 0.56 COMPARED TO (n-BUTYL ACETATE = 1)
LogKow	NOT AVAILABLE
Solubility	EASILY SOLUBLE IN WATER

SECTION 10 – Stability and Reactivity

Stability and Reactivity	THE PRODUCT IS STABLE
Conditions of Instability	NOT AVAILABLE
Incompatibility Various Substances	HIGHLY REACTIVE WITH OXIDIZING AGENTS, METALS, ALKALIS
Rem / Incompatibility	NOT AVAILABLE
Hazardous Decomposition Products	COx
Hazardous Polymerization	NOT AVAILABLE

SECTION 11 – Toxicological Information

RTECS Number	ACETIC ACID AF1225000 WATER ZC0110000
Toxicity	ACUTE ORAL TOXICITY (LD50): 16550 MG/KG (RAT) (CALCULATED VALUE FOR THE MIXTURE)
Chronic Effects on Humans	NOT AVAILABLE
Acute Effects on Humans	HAZARDOUS IN CASE OF EYE CONTACT (CORROSIVE). CAUSES EYE BURNS. HAZARDOUS IN CASE OF SKIN CONTACT (CORROSIVE). SKIN CONTACT PRODUCES BURNS. HAZARDOUS IN CASE OF INHALATION (LUNG CORROSIVE). HAZARDOUS IN CASE OF INGESTION.
Synergetic Products (Toxicologically)	NOT AVAILABLE
Irritancy	DRAIZE TEST: NOT AVAILABLE
Sensitization	SLIGHTLY HAZARDOUS IN CASE OF INHALATION (LUNG SENSITIZER)
Carcinogenic Effects	THIS MATERIAL IS NOT KNOWN TO CAUSE CANCER IN ANIMALS OR HUMANS
Toxicity to Reproductive System	NOT AVAILABLE
Teratogenic Effects	NOT AVAILABLE
Mutagenic Effects	NOT AVAILABLE

SECTION 12 – Ecological Information

Ecotoxicity	NOT AVAILABLE
BOD5 and COD	NOT AVAILABLE
Toxicity of the Products of Biodegradation	THE PRODUCTS OF DEGRADATION ARE LESS TOXIC THAN THE PRODUCT ITSELF

SECTION 13 – Disposal Considerations

EPA Waste Number	D002
Treatment	SPECIFIED TECHNOLOGY – NEUTRALIZE TO pH 6 – 9. CONTACT LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES. ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 – Transport Information

DOT Classification	PROPER SHIPPING NAME: ACETIC ACID SOLUTION HAZARD CLASS: 8 UN NUMBER: UN2790 89 PACKING GROUP: III II RQ: NOT APPLICABLE
TDG Classification	NOT AVAILABLE
IMO / IMDG Classification	NOT AVAILABLE
ICAO / IATA Classification	NOT AVAILABLE

SECTION 15 – Regulatory Information

U.S. Federal Regulations	**TSCA** 8(b) INVENTORY: ACETIC ACID; WATER **SARA** 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: NO PRODUCTS WERE FOUND. **SARA** 302/304 EMERGENCY PLANNING AND NOTIFICATION: NO PRODUCTS WERE FOUND. **SARA** 302/304/311/312 HAZARDOUS CHEMICALS: ACETIC ACID **SARA** 311/312/ MSDS DISTRIBUTION – CHEMICAL INVETORY – HAZARD IDENTIFICATION: ACETIC ACID: FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD **SARA** 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING: NO PRODUCTS WERE FOUND. **CLEAN WATER** ACT (CWA) 307: NO PRODUCTS WERE FOUND **CLEAN WATER ACT** (CWA) 311: ACETIC ACID **CLEAN AIR ACT** (CAA) 112 ACCIDENTAL RELEASE PREVENTION: NO PRODUCTS WERE FOUND. **CLEAN AIR ACT** (CAA) 112 REGULATED FLAMMABLE SUBSTANCES: NO PRODUCTS WERE FOUND **CLEAN AIR ACT** (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND
WHMIS (Canada)	CLASS E: CORROSIVE LIQUID CEPA DSL: ACETIC ACID; WATER THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCT REGULATIONS AND THE MSDS CONTAINS ALL REQUIRED INFORMATION.
International Regulations	
EINECS	ACETIC ACID 200 – 580 – 7 WATER 231 – 791 – 2

DSCL (EEC)	R35 – CAUSES SEVERE BURNS
INTERNATIONAL LISTS	Australia (NICNAS): ACETIC ACID; WATER Japan (MITI): ACETIC ACID; WATER Korea (TCCL): ACETIC ACID; WATER Philippines (RA6969): ACETIC ACID; WATER China: NO PRODUCTS WERE FOUND
State Regulations	Pennsylvania RTK: ACETIC ACID: (ENVIRONMENTAL HAZARD, GENERIC ENVIRONMENTAL HAZARD) Massachusetts RTK: ACETIC ACID New Jersey: ACETIC ACID California Prop. 65: NO PRODUCTS WERE FOUND

SECTION 16 – Other Information

Notice to Reader	THE STATEMENTS CONTAINED HEREIN ARE BASED UPON TECHNICAL DATA THAT CES BELIEVES TO BE RELIABLE, ARE OFFERED FOR INFORMATION PURPOSES ONLY AND AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY AND EMERGENCY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON HAVING THE NECESSARY TECHNICAL SKILLS. USERS SHOULD CONSIDER THESE DATA ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE, STORAGE AND DISPOSAL OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES AND CUSTOMERS AND THE PROTECTION OF THE ENVIRONMENT. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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CES 2350
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CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/13/2007**

Dear

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 # 2350

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Methylene Chloride
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Color: Clear / Colorless **Odor:** Chloroform-like **pH:** na
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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.

THIS IS A PRODUCT PROFILE

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: CES ENVIRONMENTAL SERVICES, INC
Address: 4904 GRIGGS RD
City, State, Zip: HOUSTON, TX, 77021
Contact: Title:
Phone No: 713-676-1460 Fax No: 713-676-1676
24/hr Phone:
U.S. EPA I.D. No:
State I.D. SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: N/A - VARIOUS CUSTOMERS
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: METHYLENE CHLORIDE
Detailed Description of Process Generating or Producing the Material / Product: Solvent from production of pharmaceutical chemicals

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

Color: Clear/Colorless Odor: chloroform-like

Specific Gravity (water=1): 1.33 Density: 10-11 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): ____ Other: ____

Proper U.S. DOT Shipping Name: RQ Dichloromethane
Class: 6.1 UN/NA: UN1593 PG: III RQ: 1000 LBS

Flash Point N/A	pH N/A	N/A	N/A	Solids 0 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Methylene Chloride	93-99%	
Water	0-5 3%	
methanol	0-5%	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

—— See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

—— MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— See MSDS

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:** 9-13-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: Rebecca Mangra

Date: 9-13-07 (Approved) Rejected

Approval Number: 2350

Process Facility Information:

Please test for methylene Chloride by distillation.

Please test for specific gravity.

Please also note color + turbidity on inbound report

EPAHO103000231

Material Safety Data Sheet

Methylene Chloride

8 Pages

COMPANY IDENTIFICATION

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021

Information: (713) 676-1460

Emergency Contact: (713) 676-1460

1. Product Identification

Synonyms:	MC; Dichloromethane (DCM); Methylene Dichloride; Methylene Bichloride; Methane Dichloride
CAS No:	75-09-2
Molecular Weight:	84.93
Chemical Formula:	CH2C12

2. Composition/Information on Ingredients

INGREDIENT	CAS NO.	PERCENT	HAZARDOUS
Methylene Chloride	75-09-2	> 99%	Yes
Methanol		0-5	.....No
Water		0-2	No

3. Hazards Identification

Emergency Overview:

WARNING! HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, CARDIOVASCULAR SYSTEM, AND BLOOD. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

J. T. Baker SAF-T-DATA (tm) Ratings (Provided here for your convenience)

Health Rating:	3	Severe (Cancer Causing)
Flammability Rating:	1	Slight
Reactivity Rating:	1	Slight
Contact Rating:	2	Moderate
Lab Protective Equipment:		**Goggles & Shield; Lab Coat & Apron; Vent Hood; Proper Gloves**
Storage Color Code:		Blue (Health)

POTENTIAL HEALTH EFFECTS:

Inhalation:

Causes irritation to respiratory tract. Has a strong narcotic effect with symptoms of mental confusion, light-headedness, fatigue, nausea, vomiting, and headache. Causes formation of carbon monoxide in blood which affects cardiovascular system and central nervous system. Continued exposure may cause increased light-headedness, staggering, unconsciousness, and even death. Exposure may make the symptoms of angina (chest pains) worse.

Ingestion:

May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through gastrointestinal tract may produce symptoms of central nervous system depression ranging from light-headedness to unconsciousness.

Skin Contact:

Causes irritation, redness, and pain. Prolonged contact can cause burns. Liquid degreases the skin. May be absorbed through skin.

Eye Contact:

Vapors can cause eye irritation. Contact can produce pain, inflammation, and temporal eye damage.

Chronic Exposure:

Can cause headache, mental confusion, depression, liver effects, kidney effects, bronchitis, loss of appetite, nausea, lack of balance, and visual disturbances. Can cause dermatitis upon prolonged skin contact. Methylene chloride may cause cancer in humans.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, respiratory or cardiovascular 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:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing 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:

Autoignition temperature: 556C (1033F)
Flammable limits in air % by volume:
lel: 12; uel: 23

Forms flammable vapor-air-mixtures above 100C (212F).

Explosion:

Concentrated can be ignited by a high intensity ignition source. Vapor may form flammable mixture in atmosphere that contains a high percentage of oxygen. Sealed containers may rupture when heated.

Fire Extinguishing Media:

Dry chemical, foam, or carbon dioxide. 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 face piece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

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.

7. Handling and Storages

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Outside or detached storage is recommended. 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. To minimize decomposition, all storage containers should be galvanized or lined with a phenolic coating. This material may corrode plastic and rubber. Wear special protective equipment (Section 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms, and neck when exiting restricted areas. Shower, dispose of outer clothing, and change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Odor Threshold: 205 – 307 ppm. The odor threshold only serves as a warning of exposure; not smelling it does not mean you are not being exposed.

8. Exposure Controls/Personal Protetion

Airborne Exposure Limits:

Methylene Chloride (Dichloromethane):
- OSHA Permissible Exposure Limit (PEL) –
- 25 ppm (TWA), 125 ppm (STEL), 12.5 ppm (8-hour TWA – Action Level
- ACGIH Threshold Limit Value (TLV) –
- 50 ppm (TWA), A2 – suspected human carcinogen

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhause 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.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, wear a supplied air, full-face piece respirator, airlined hood, or full-face piece self-contained breathing apparatus. The cartridges recommended for this material have a predicted service of less than 30 minutes at concentrations of 10 times (10x) the exposure limits. Actual service life will vary considerably, depending on concentration levels, temperature, humidity, and work rate. This substance has poor warning properties.

Skin Protection:

Wear impervious protection clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene is a recommended material for personal protective equipment. Natural rubber and polyvinyl chloride ARE NOT recommended materials for personal protective equipment.

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.

Other Control Measures:

Do not use closed circuit re-breathing system employing soda lime or other carbon dioxide absorber because of formation of toxic compounds capable of producing cranial nerve paralysis. See OSHA Standard for medical surveillance, record keeping, and reporting requirements for methylene chloride (29 CFR 1910.1052).

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Chloroform-like odor

Solubility: 1.32 gm/100 gm water @ 20C

Specific Gravity: 1.33 @ 15C/4C

pH: No information found

% Volatiles by volume @ 21C (70F): 100

Boiling Point: 39.8C (104F)

Melting Point: -97C (-143F)

Vapor Density (Air = 1): 2.9

Vapor Pressure (mm Hg): 350 @ 20C (68F)

Evaporation Rate (BuAc = 1): 27.5

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Emits highly toxic fumes of phosgene when heated to decomposition. Decomposes in a flame or hot surface to form toxic gas phosgene and corrosive mists of hydrochloric acid. Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attack some forms of plastics, rubber, and coatings.

Conditions to Avoid:

Moisture, heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Toxicological Data:

Dichloromethane: Oral rat LD50: 1600 mg/kg; inhalation rat LC50: 52 gm/m3; investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

Dichloromethane has been linked to spontaneous abortions in humans.

Cancer Lists:

INGREDIENT	Known	NTP Carcinogen Anticipated	IARC Category
Methylene Chloride (75-09-2)	No	Yes	2B

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of greater than 30 days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. Disposal Considerations

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: DICHLOROMETHANE
Hazard Class: 6.1
UN/NA: UN1593
Packing Group: III
Information Reported for Product/Size: 52L

INTERNATIONAL (WATER, I.M.O.)

Proper Shipping Name: DICHLOROMETHANE
Hazard Class: 6.1
UN/NA: UN1593
Packing Group: III
Information Reported for Product/Size: 52L

INTERNATIONAL (AIR, I.C.A.O.)

Proper Shipping Name: DICHLOROMETHANE
Hazard Class: 6.1
UN/NA: UN1593
Packing Group: III
Information Reported for Product/Size: 52L

15. Regulatory Information

Chemical Inventory Status – Part 1

INGREDIENT	TSCA	EC	Japan	Australia
Methylene Chloride (75-09-2)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

INGREDIENT	Korea	DSL	NDSL	Phil.
Methylene Chloride (75-09-2)	Yes	Yes	No	Yes

Federal, State & International Regulations – Part 1

INGREDIENT	SARA 302 RQ	TPQ	List	SARA 313 Chemical Catg.
Methylene Chloride (75-09-2	No	No	Yes	No

Federal, State & International Regulations – Part 2

INGREDIENT	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Methylene Chloride (75-09-2	1000	0080	No

Chemical Weapons Convention: No TSCA 12(b): No CD____: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure/Liquid)

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: 2Z
Poison Schedule: S5
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: 1 Reactivity: 0

Label Hazard Warning:

WARNING HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, CARDIOVASCULAR SYSTEM, AND BLOOD. CAUSES IRRITATION TO SKIN, EYES , AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

Label Precautions:

- Do not breathe vapor.
- Keep container closed.
- Use only with adequate ventilation.
- Wash thoroughly after handling.
- Keep away from heat and flame.
- Do not get in eyes, on skin, or on clothing.

EPAHO103000238

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 a least 15 minutes while removing 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: 1,2.

Disclaimer:

CES Environmental Services, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. CES ENVIRONMENTAL SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

CES 2351
2351

EPAHO10300240

copy

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/13/2007**

Dear

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 # 2351

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Unrestricted light ends
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Color: Clear to yellow/brown/ **Odor:** solvent odor **pH:** na
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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.

THIS IS REALLY A PRODUCT PROFILE

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: CES ENVIRONMENTAL SERVICES, INC
Address: 4904 GRIGGS RD
City, State, Zip: HOUSTON, TX, 77021
Contact: _____ Title: _____
Phone No: 713-676-1460 Fax No: 713-676-1676
24/hr Phone: _____
U.S. EPA I.D. No: _____
State I.D. _____ SIC Code: _____

SECTION 2: Billing Information – ☐ Same as Above

Company: N/A - VARIOUS CUSTOMERS
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Material / Product

Name of Material / Product: ~~PIG~~ UNRESTRICTED LIGHT ENDS
Detailed Description of Process Generating or Producing the Material / Product: COLLECTION OF VARIOUS LIGHT MATERIALS

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

Color: Clear to yellow / brown / black Odor: Solvent odor

Specific Gravity (water=1): .79-0.85 Density: 7-8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): _____ Other: _____

Proper U.S. DOT Shipping Name: Product Flammable liquids, nos (xylene, toluene, heptanes)
Class: 3 UN/NA: UN1993 PG: II RQ: NA

Flash Point 50-100°	pH NA	N/A	N/A	Solids 0 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

EPAHO103000243

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
See MSDS		

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

—— See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

—— MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— see MSDS

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:** ~~19~~ 9-13-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Technical Manager: Rabbert Thanga Date: 9-13-07 Approved Rejected Approval Number: 2351	Please run the following testst put on outbound report. – API GRAVITY – WATER CONTENT

–ORGANIC CHLORIDES
–SULFUR
Please note color + odor

MATERIAL SAFETY DATA SHEET

CES ENVIRONMENTAL SERVICES, INC.
4904 GRIGGS ROAD
HOUSTON, TX 77021
713-676-1460
Chemtrec–Product Emergency Hotline
1-800-424-9300

May be used to comply with OSHA'S Hazard Communication Standard 29CFR 1910.1200. Standard must be consulted for specific requirements

SECTION I — PRODUCT IDENTIFICATION

TRADE NAME:	CES UN-RESTRICTED LIGHT ENDS
U.S.D.O.T. SHIPPING NAME:	FLAMMABLE LIQUID, n.o.s.
U.S.D.O.T. PRIMARY HAZARD CLASS:	3, (FLAMMABLE LIQUID)
IDENTIFICATION NUMBER:	UN1993

SECTION II — HAZARDOUS INGREDIENTS-IDENTIY INFORMATION

HAZARDOUS COMPONENTS	CAS No.	ACGIH TLV	VOL %
XYLENE	106-42-3	100 ppm	5 – 30
HEPTANE	142-82-5	400 ppm	5 - 30
HEXANE	110-54-3	50 ppm	5 - 30
ETHYL BENZENE	100-41-4	100 ppm	5 - 30
TOLUENE	108-88-3	50 ppm	5 - 30
METHANOL	67-56-1	200 ppm	5 - 30
BUTANOL	71-36-3	20 ppm	5 - 30
PROPONOL	71-23-8	200 ppm	5 - 30
ETHANOL	64-17-5	1,000 ppm	5 - 30
GASOLINE	86290-81-5	300 ppm	5 - 30
KEROSENE	8008-20-6	200 ppm	5 30
ISOPROPYL ETHER	108 20 3	250 ppm	5 - 30
DIESEL	68334-30-5	100 ppm	5 - 30
NAPHTHA	8032-32-4	300 ppm	5 - 30

Other components, if any, are considered to be non-hazardous as per OSHA 29 CFR 1910.1200.

SECTION III — PHYSICAL and CHEMICAL CHARACTERISTICS

FLASH POINT	80F USING TAG CLOSED CUP ASTM D-56
SPECIFIC GRAVITY (H2O=1)	0.82 @ 20C
VAPOR DENSITY (AIR =1)	GREATER THAN 1
% SOLIDS:	0
WEIGHT (LB/GAL):	6.85
SOLUBILITY IN WATER:	INSOLUBLE TO LOW SOLUBILITY
APPEARANCE and ODOR	CLEAR to YELLOW/BROWN/BLACK LIQUID; ALCOHOL and SOLVENT ODOR
EVAPORATION RATE (BA =1)	<1

SECTION IV — FIRE and EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:	CARBON DIOXIDE, DRY CHEMICAL, REGULAR FOAM WATER SPRAY.
SPECIAL FIRE FIGHTING PROCEDURES:	USE SELF-CONTAINED BREATHING APPARATUS.
UNSUAL FIRE and EXPLOSION HAZARDS:	HEATING OF NON-VENTED CONTAINER MAY CAUSE EXPLOSION. KEEP SURROUNDING CONTAINERS; COOL WITH WATER SPRAY.

SECTION V — REACTIVITY DATA

STABILITY:	STABLE
MATERIALS TO AVOID:	OXIDIZING AGENTS
CONDITIONS TO AVOID:	CONTACT WITH OPEN FLAME
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON MONOXIDE and ASPHYXLANTS MAY BE FORMED DURING COMBUSTION

EPAHO103000245

HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

SECTION VI — HEALTH HAZARD DATA

SIGNS and SYMPTOMS OF EXPOSURE:

EYES:	IRRITATION, REDNESS
DERMAL	DRYNESS, IRRITATION and REDNESS
INHALATION:	VAPORS MAY IRRITATE NOSE, THROAT and RESPIRATORY TRACT
INGESTION:	NAUSEA, VOMITING, DIZZINESS, HEADACHE and VISION

EMERGENCY and FIRST AID PROCEDURES:

EYES:	FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
DERMAL:	WASH WITH SOAP and WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, GET MEDICAL ATTENTION. IMMEDIATELY REMOVE SOAKED CLOTHING, and WASH BEFORE REUSE.
INHALATION:	REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PROVIDED A QUALIFIEDINDIVIDUAL IS AVAILABLE. GET MEDICAL ATTENTION PROMPTLY.
INGESTION:	**DO NOT INDUCE VOMITING. DO NOT GIVE LIQUIDS.** OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS, WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE IS GONE.
ACUTE HEALTH HAZARDS:	MILD IRRITATION TO THE EYES and SKIN.
CHRONIC HEALTH HAZARDS:	NONE EXPECTED AT THE INDUSTRIAL LEVEL.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

DIKE OR CONTAIN THE SPILL AREA. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA IF NECESSARY. ABSORB FREE LIQUID WITH EARTH, SAND, CLAY, OR ABSORBENT PADS AND PLACE IN NON-LEAK CONTAINERS FOR DISPOSAL. FLUSH THE AREA FOR TRACE RESIDUE AND DISPOSE OF AS BELOW.

WASTE DISPOSAL METHOD:

IN ACCORDANCE WITH LOCAL, STATE and FEDERAL LAWS.

SECTION VIII — SPECIAL PROTECITON INFORMATION

RESPIRATORY PROTECITON:	NORMALLY NOT NEEDED IN A WELL-VENTED AREA
VENTILATION:	MECHANICAL TO MAINTAIN GOOD AIR FLOW
PROTECTIVE GLOVES:	RUBBER
EYE PROTECTION:	GOGGLES OR SAFETY GLASSES
OTHER:	AS NEEDED TO MINIMIZE EXPOSURE
HYGIENIC PRACTICE:	ALWAYS WASH FACE and HANDS AFTER CONTACT

SECTION IX — NOTES

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility or injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in the use of this material.

Effective Date: September 13, 2006
Revision Date: September 13, 2006

EPAHO103000246

CES 2352
#2352

EPAHO10300247

Copy

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/13/2007**

Dear

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 # 2352

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Restricted lightends
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Collected from various lightend materials
Color: Clear to yellow/brown/ **Odor:** Solvent odor **pH:** na
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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.

THIS IS REALLY A PRODUCT PROFILE

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: CES ENVIRONMENTAL SERVICES, INC
Address: 4904 GRIGGS RD
City, State, Zip: HOUSTON, TX, 77021
Contact: Title:
Phone No: 713-676-1460 Fax No: 713-676-1676
24/hr Phone:
U.S. EPA I.D. No:
State I.D. SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: N/A - VARIOUS CUSTOMERS
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: RESTRICTED LIGHT ENDS
Detailed Description of Process Generating or Producing the Material / Product: collection from various light end materials

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

Color: Clear to yellow/Brown/Black Odor: Solvent odor

Specific Gravity (water=1): 0.79-0.85 Density: 7-8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): Other:

Proper U.S. DOT Shipping Name: Product Flammable liquids, n.o.s. (xylene, toluene, heptanes)
Class: 3 UN/NA: UN1993 PG: ~~#~~ RQ:

Flash Point 50-100 C	pH NA	N/A NA	N/A	Solids 0 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

EPAHO103000250

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
See MSDS		

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

See MSDS

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:** 9-13-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: Robert Magna

Date: 9-13-07 Approved Rejected

Approval Number: 2552

MAY NOT BE USED FOR FUELS

Process Facility Information:

Please run the following tests + put on outbound report

- API GRAVITY
- WATER CONTENT
- ORGANIC CHLORIDES
- SULFUR

PLEASE NOTE COLOR + ODOR ALSO

EPAHO103000251

MATERIAL SAFETY DATA SHEET

CES ENVIRONMENTAL SERVICES, INC.
4904 GRIGGS ROAD
HOUSTON, TX 77021
713-676-1460
Chemtrec–Product Emergency Hotline
1-800-424-9300

May be used to comply with OSHA'S Hazard Communication Standard 29CFR 1910.1200. Standard must be consulted for specific requirements

SECTION I — PRODUCT IDENTIFICATION

TRADE NAME:	CES RESTRICTED LIGHT ENDS
U.S.D.O.T. SHIPPING NAME:	FLAMMABLE LIQUID, n.o.s.
U.S.D.O.T. PRIMARY HAZARD CLASS:	3, (FLAMMABLE LIQUID)
IDENTIFICATION NUMBER:	UN1993

SECTION II — HAZARDOUS INGREDIENTS-IDENTIY INFORMATION

HAZARDOUS COMPONENTS	CAS No.	ACGIH TLV	VOL %
XYLENE	106-42-3	100 ppm	5 – 30
HEPTANE	142-82-5	400 ppm	5 - 30
HEXANE	110-54-3	50 ppm	5 - 30
ETHYL BENZENE	100-41-4	100 ppm	5 - 30
TOLUENE	108-88-3	50 ppm	5 - 30
METHANOL	67-56-1	200 ppm	5 - 30
BUTANOL	71-36-3	20 ppm	5 - 30
PROPONOL	71-23-8	200 ppm	5 - 30
ETHANOL	64-17-5	1,000 ppm	5 - 30
GASOLINE	86290-81-5	300 ppm	5 - 30
KEROSENE	8008-20-6	200 ppm	5 30
ISOPROPYL ETHER	108 20 3	250 ppm	5 - 30
DIESEL	68334-30-5	100 ppm	5 - 30
NAPHTHA	8032-32-4	300 ppm	5 - 30

Other components, if any, are considered to be non-hazardous as per OSHA 29 CFR 1910.1200.

SECTION III — PHYSICAL and CHEMICAL CHARACTERISTICS

FLASH POINT	80F USING TAG CLOSED CUP ASTM D-56
SPECIFIC GRAVITY (H2O=1)	0.82 @ 20C
VAPOR DENSITY (AIR =1)	GREATER THAN 1
% SOLIDS:	0
WEIGHT (LB/GAL):	6.85
SOLUBILITY IN WATER:	INSOLUBLE TO LOW SOLUBILITY
APPEARANCE and ODOR	CLEAR to YELLOW/BROWN/BLACK LIQUID; ALCOHOL and SOLVENT ODOR
EVAPORATION RATE (BA =1)	<1

SECTION IV — FIRE and EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:	CARBON DIOXIDE, DRY CHEMICAL, REGULAR FOAM WATER SPRAY.
SPECIAL FIRE FIGHTING PROCEDURES:	USE SELF-CONTAINED BREATHING APPARATUS.
UNSUAL FIRE and EXPLOSION HAZARDS:	HEATING OF NON-VENTED CONTAINER MAY CAUSE EXPLOSION. KEEP SURROUNDING CONTAINERS; COOL WITH WATER SPRAY.

SECTION V — REACTIVITY DATA

STABILITY:	STABLE
MATERIALS TO AVOID:	OXIDIZING AGENTS
CONDITIONS TO AVOID:	CONTACT WITH OPEN FLAME
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON MONOXIDE and ASPHYXLANTS MAY BE FORMED DURING COMBUSTION

EPAHO103000252

HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

SECTION VI — HEALTH HAZARD DATA

SIGNS and SYMPTOMS OF EXPOSURE:

EYES:	IRRITATION, REDNESS
DERMAL	DRYNESS, IRRITATION and REDNESS
INHALATION:	VAPORS MAY IRRITATE NOSE, THROAT and RESPIRATORY TRACT
INGESTION:	NAUSEA, VOMITING, DIZZINESS, HEADACHE and VISION

EMERGENCY and FIRST AID PROCEDURES:

EYES:	FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
DERMAL:	WASH WITH SOAP and WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, GET MEDICAL ATTENTION. IMMEDIATELY REMOVE SOAKED CLOTHING, and WASH BEFORE REUSE.
INHALATION:	REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PROVIDED A QUALIFIEDINDIVIDUAL IS AVAILABLE. GET MEDICAL ATTENTION PROMPTLY.
INGESTION:	**DO NOT INDUCE VOMITING. DO NOT GIVE LIQUIDS.** OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS, WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE IS GONE.
ACUTE HEALTH HAZARDS:	MILD IRRITATION TO THE EYES and SKIN.
CHRONIC HEALTH HAZARDS:	NONE EXPECTED AT THE INDUSTRIAL LEVEL.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

DIKE OR CONTAIN THE SPILL AREA. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA IF NECESSARY. ABSORB FREE LIQUID WITH EARTH, SAND, CLAY, OR ABSORBENT PADS AND PLACE IN NON-LEAK CONTAINERS FOR DISPOSAL. FLUSH THE AREA FOR TRACE RESIDUE AND DISPOSE OF AS BELOW.

WASTE DISPOSAL METHOD:

IN ACCORDANCE WITH LOCAL, STATE and FEDERAL LAWS.

SECTION VIII — SPECIAL PROTECITON INFORMATION

RESPIRATORY PROTECITON:	NORMALLY NOT NEEDED IN A WELL-VENTED AREA
VENTILATION:	MECHANICAL TO MAINTAIN GOOD AIR FLOW
PROTECTIVE GLOVES:	RUBBER
EYE PROTECTION:	GOGGLES OR SAFETY GLASSES
OTHER:	AS NEEDED TO MINIMIZE EXPOSURE
HYGIENIC PRACTICE:	ALWAYS WASH FACE and HANDS AFTER CONTACT

SECTION IX — NOTES

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility or injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in the use of this material.

Effective Date: September 13, 2006
Revision Date: September 13, 2006

EPAHO103000253

BW Services 2354
2354

EPAHQ1030002541

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/14/2007**

Dear **Brandon Dougles**

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 # 2354

Generator: BW Services
Address: 1100 Wayne Drive
Angleton, TX 77515

Waste Information

Name of Waste: Waste Plyamul CPS 104
TCEQ Waste Code #: 00062191
Container Type:
Detailed Description of Process Generating Waste:
Unused product cleaned from railcars
Color: white **Odor:** bland **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

DB

SECTION 1: Generator Information

Company:	BW Services		
Address:	1100 Wayne Dr.		
City, State, Zip:	Angleton, TX 77515		
Contact:	Brandon/Connie	Title:	Management
Phone No:	979-848-8800	Fax No:	979-848-9990
24/hr Phone:	979-848-8800		
U.S. EPA I.D. No:	TXD086467800		
State I.D.	30207	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: Waste Plyamul CPS 104
Detailed Description of Process Generating Waste: Unused product cleaned from railcars.

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

Color: White Odor: Bland

Specific Gravity (water=1): 1.08 Density: 8-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 10 Other: ____
Texas State Waste Code No: 00062191
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Plyamul CPS 104
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point >200	pH Na	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 0-3%
Oil&Grease Namg/l	TOC Namg/l	Zinc Namg/l	Copper Namg/l	Nickel Namg/l

EPAHO103000256

SECTION 4: Physical and Chemical Data

[illegible]	[illegible]	[illegible]
The waste consists of the following materials	Ranges are acceptable	or %
Plyamul CPS 104	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.
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: 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:** 9-12-07

Printed Name/Title: Brandon White VP

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Barbara Reyna	#75 Idm
Date: 9-13-07 (Approved) Rejected	Sludge Box
Approval Number: 2354	OL NBL

EPAHO103000257

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

EPAHO103000258

(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.

EPAHO103000259

O/K
wt/x

Plyamul CPS104
Material Safety Data Sheet
INFORMATION TELEPHONE NO. 1-919-433-1334
PLYAMUL (R) CPS 104

MSDS No: 5555
Forbo Adhesives, LLC

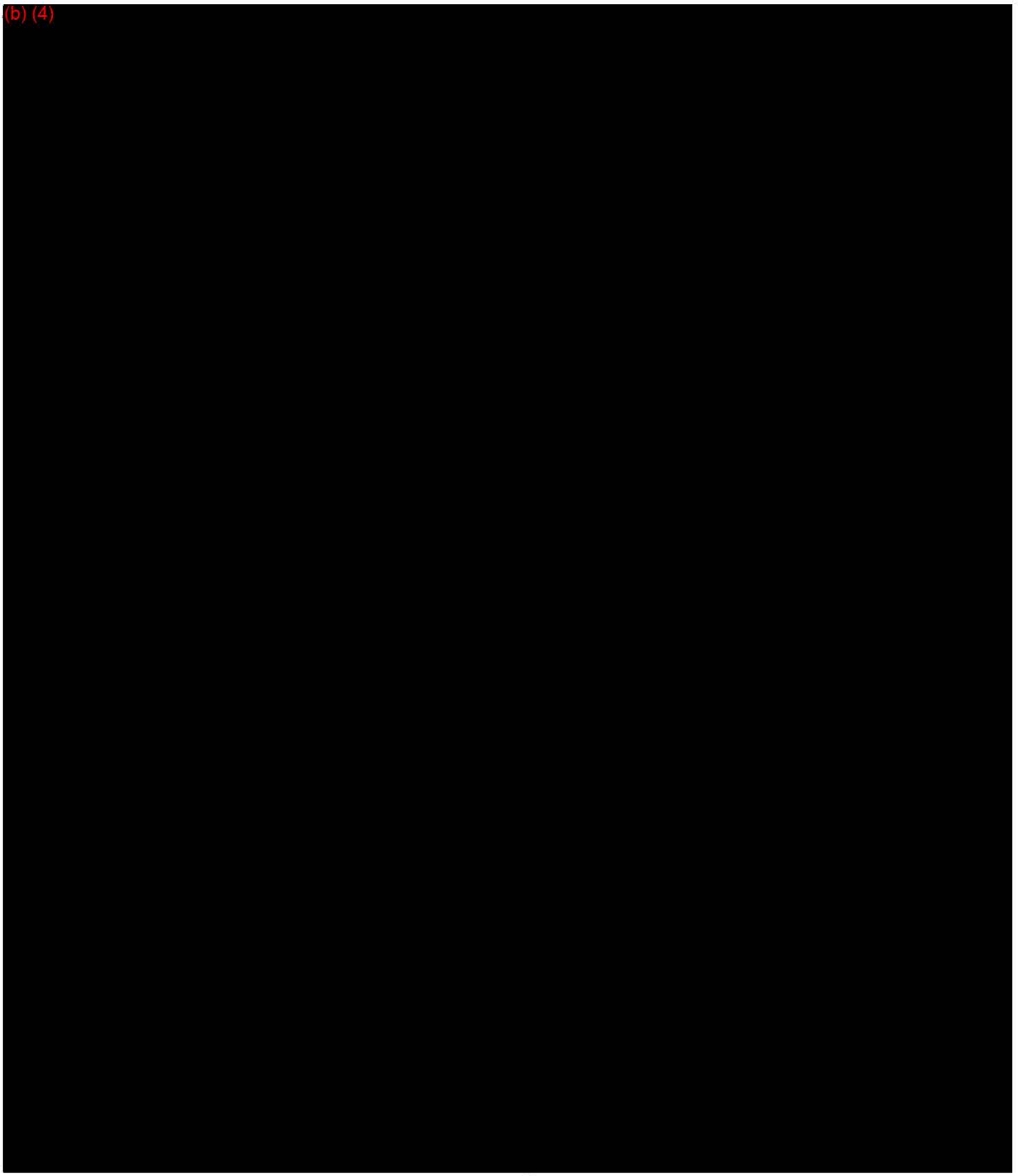
P.O. Box 110447
Research Triangle Park, NC 27709-0447

ALL CHEMICAL EMERGENCIES
1-800-424-9300

(b) (4)

[redacted]

(b) (4)



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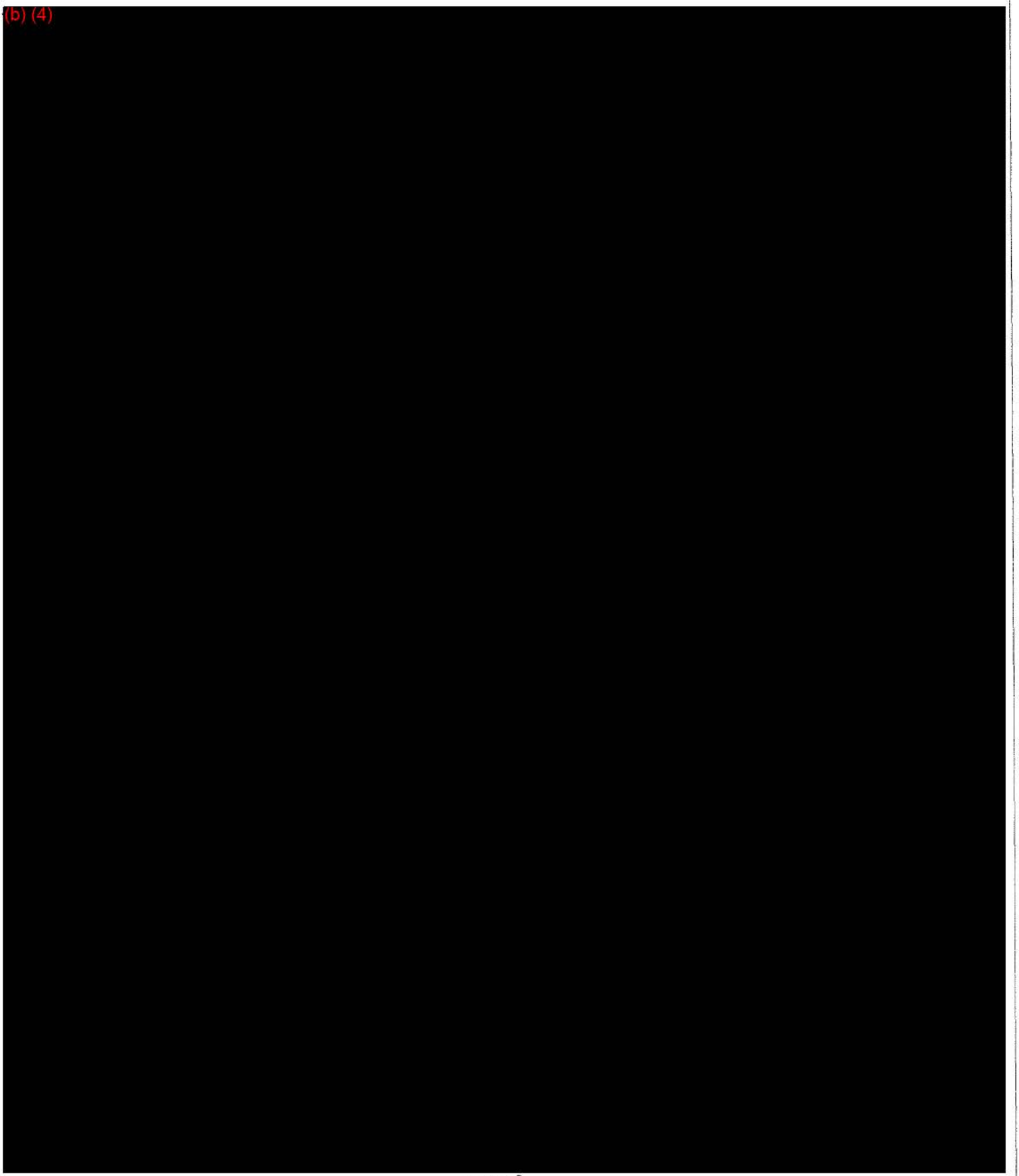

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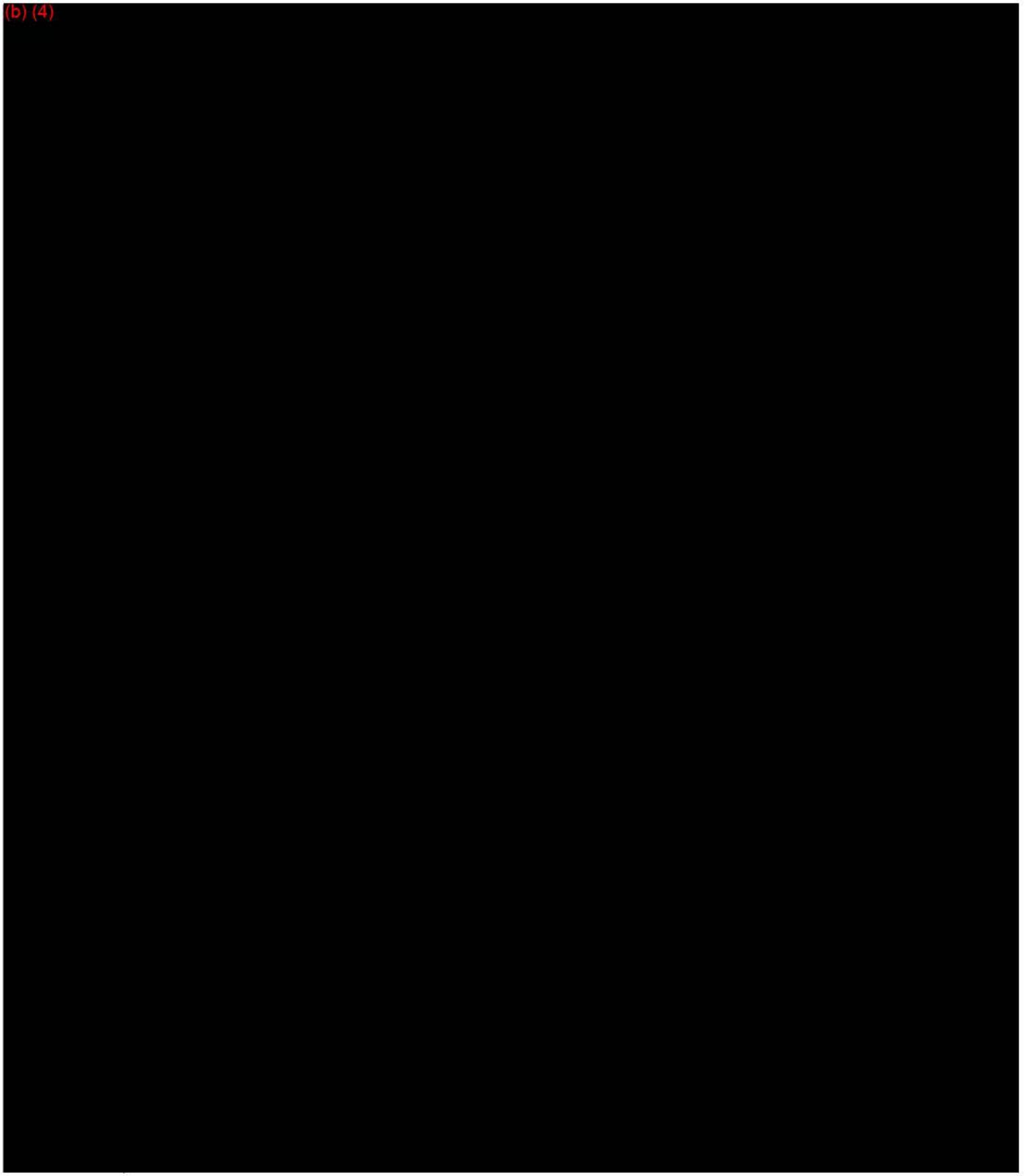

(b) (4)

[redacted]

(b) (4)

Tenaris
2355

2355

EPAHO103000267

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/14/2007**

Dear **Gary Bailey**

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 # 2355

Generator: Precision Tube Tech.
Address: 8615 Beltway 8 East
Houston, TX 77044

Waste Information

Name of Waste: Soapy water
TCEQ Waste Code #: 00201191
Container Type:
Detailed Description of Process Generating Waste:
Cleaning of tubes prior to hydrotesting
Color: 1 **Odor:** 8.34 **pH:** 10.6
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.

MB

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:	Precision Tube Technologies		
Address:	8615 Beltway 8 East		
City, State, Zip:	Houston, TX 77044		
Contact:	Gary Bailey	**Title:**	Plant Maintenance Manager
Phone No:	281-458-2883	**Fax No:**	281-459-2404
24/hr Phone:			
U.S. EPA I.D. No:	TXR000043122		
State I.D.	20623	**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: Soapy Water
Detailed Description of Process Generating Waste: Cleaning of tubes prior to hydrotesting

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

Color: varies **Odor:** soapy

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

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

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 5500 gal ____

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 4 **Other:** ____
Texas State Waste Code No: 00201191
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	10.6	<50mg/l	<50mg/l	<2%

Oil&Grease	TOC	Zinc	Copper	Nickel
<100mg/l	>1000mg/l	namg/l	namg/l	namg/l

EPAHO103000269

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	95-99	%
Cascade Detergent	1-2	%
Oil	0-1	%
Rust, Dirt	1-2	%

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):
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: Gary Bailey **Date:** 8-29-07

Printed Name/Title: Gary Bailey

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Thompson

Date: 9-13-07 (Approved) Rejected

Approval Number: 2355

Process Facility Information:
$0.14/gal $69/hr trans
Should be low TOC + Solids

1L

EPAHO103000270

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

EPAHO103000271

(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.

EPAHO103000272

Commercial Products Group
CPG TN 6
2 Procter & Gamble Plaza
Cincinnati, OH 45202

HMIS®
Health 1
Flammability 0
Reactivity 0

MATERIAL SAFETY DATA SHEET

Issue Date: 2/99

SECTION I

Emergency Telephone Number: Procter & Gamble Operator 1-513-983-1100
Identity: **Professional Line CASCADE Dishwasher Detergent**
Ingredients/Chemical Name: Water softening, (complex sodium phosphates and sodium carbonate), cleaning and water spot prevention agents (nonionic surfactant and chlorine bleach), dishwasher and china protection agent (sodium silicate) processing aid (sodium sulfate), suds control agent, colorant and perfume.
Other: N.A.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

This mixture, when tested as a whole, is considered an eye irritant within the meaning of the OSHA Hazard Communication Standard.
DOT Classification: Not regulated

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°F): N.A.
Vapor Pressure (mm Hg): N.A.
Vapor Density (Air=1): N.A.
Solubility in Water: Appreciable
pH (1% solution): 10.6.
Specific Gravity (H_2O = 1): .92g/cc (bulk density)
Percent Volatile by Volume (%): N.A.
Evaporation Rate (nBu0Ac=1): N.A.
Appearance and Odor: Light blue or white granular agglomerate with perfume

SECTION IV - FLAMMABILITY AND REACTIVITY

Flash Point (Method Used): N.A.
Explosive Limits: *LEL*: N.A. *UEL*: N.A.
Extinguishing Media: Use CO_2, water or dry chemical
Special Fire Fighting Procedures: None Known
Unusual Fire Hazards: None Known
Stability *Unstable:* *Conditions to Avoid*: None Known
Stable: X
Incompatibility (Materials to avoid): None Known
Hazardous Decomposition/By Products: None Known
Hazardous Polymerization *May Occur*: *Conditions to Avoid*: None Known
Will Not Occur: X

EPAHO103000273

SECTION V - HEALTH AND SAFETY DATA

Route(s) of Entry: Ingestion, eye contact, inhalation, skin contact.

Health Hazards (Acute and Chronic): Ingestion may cause moderate transient gastrointestinal irritation. Heavy or prolonged exposure to breathing dust may cause transient respiratory tract irritation. Prolonged skin contact with undiluted product may result in irritation.

Signs and Symptoms of Exposure: Ingestion may result in nausea, vomiting and/or diarrhea. Eye contact may cause stinging, tearing, itching, swelling and/or redness. Inhalation may cause coughing, sore throat, wheezing or transitory shortness of breath. Prolonged skin contact may result in redness, itching and irritation.

Medical Conditions Generally Aggravated by Exposure: Pre-existing dermatitis conditions may be aggravated by prolonged contact with the product.

Emergency and First Aid Procedures: ***Ingestion:*** Drink a glassful of water or milk. If symptoms persist or recur seek medical attention. ***Eye Contact:*** Flush with water for 15 minutes. ***Inhalation:*** Leave dusty area. ***Skin Irritation:*** Flush area with water and apply cold compresses.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions to be Taken in Handling and Storing: No unusual precautions necessary. Avoid contact of cartons with moisture to avoid dispensing problems.

Other Precautions: None required

Steps to be Taken in Case Material is Released or Spilled: Sweep up and dispose as dry scrap, or flush small quantities with water down acceptable sewer. (Contains biodegradable surfactants.) Prevent spills from reaching waterways. Prevent heavy exposure to dust with NIOSH approved dust mask.

Waste Disposal Method: Disposal is to be performed in compliance with all regulations. Small or household quantities may be disposed of in refuse or sewer. Larger quantities may be disposed of in landfill where allowed by law.

SECTION VII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation *Local Exhaust*: None required with normal use. *Special*: None
Mechanical (General): Acceptable *Other*: None

Eye Protection: None required with normal usage. In dusty areas or if a splash is likely goggles may be needed.

Protective Gloves: None required with normal use. Protective gloves should be worn if prolonged direct contact is anticipated

Other Protective Equipment: None required with normal use.

*N.A. - Not Applicable *N.K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

EPAHO103000274

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/14/2007**

Dear **Arsenio**

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 # 2357

Generator: South Coast Terminals (Wallisville)
Address: 7401 Wallisville Rd.
Houston, TX 77020

Waste Information

Name of Waste: Used black oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
From manufacturing and packaging process.
Color: Brown/black **Odor:** oil-like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Standard

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: Material Producer Information

Company: SOUTH COAST TERMINALS
Address: 7401 WALLISVILLE RD
City, State, Zip: HOUSTON, TX, 77020
Contact: ARSENIO Title:
Phone No: 713-893-7407 Fax No:
24/hr Phone:
U.S. EPA I.D. No: NA
State I.D. NA SIC Code: N/A

SECTION 2: Billing Information – ☑ Same as Above

Company: SAME
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: USED BLACK OIL
Detailed Description of Process Generating or Producing the Material / Product: FROM MANUFACTURING AND PACKAGING PROCESS.

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

Color: Brown/Black Odor: Oil-like

Specific Gravity (water=1): .8-.95 Density: 8-9 lbs/gal

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☑ Drum ☐ Tote ☑ Truck ☐ Other (explain)
Container Size: 55/3000

Frequency: ☐ Weekly ☐ Monthly ☑ Quarterly ☐ Yearly
Number of Units (containers): 3 Other:

Proper U.S. DOT Shipping Name: RECYCLE Non-DOT Regulated Oil
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >150°	pH neutral	N/A	N/A	Solids 0-5 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

EPAHO103000276

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Used oil	50-75	%
water	25-50	%

SECTION 5: Safety Related Data

If the handling of this material / product 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 material / product profile.

—— None. Run Chlor-D-Tect upon arrival.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— oxidizers

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 **Date:** 9-14-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: [signature]

Date: 9-14-07 Approved Rejected

Approval Number: 2357

Process Facility Information:

GOES INTO BLACK OIL; see Product Price .30-.60/gallon — See product manager.

Run Ash, flash, + water, + gravity

EPAHO103000277

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/23/2007**

Dear

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 # 2363

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Used oil
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Recovered oil from various customers
Color: Varies - dark **Odor:** varies **pH:** Neutral
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Standard 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

SECTION 1: Material Producer Information

Company :	CES Environmental Services, Inc.		
Address :	4904 Griggs Rd 4904 Griggs Road		
City, State, Zip :	Houston TX 77021		
Contact :	Matt Bowman	**Title :**	
Phone No :	(713) 676-1460	**Fax :**	
24 / HR Phone :			
U.S EPA I.D No :	TXD008950461		
State I.D :	30900	**SIC Code**	

SECTION 2: Billing Information

Company :	CES Environmental Services, Inc.		
Address :	4904 Griggs Rd 4904 Griggs Road		
City, State, Zip :	Houston TX 77021		
Contact :	Matt Bowman	**Title :**	
Phone No :	(713) 676-1460	**Fax :**	

SECTION 3: General Description of the Material / Product

Name of Mateiral / Product : Used oil

Detailed Description of the Process Generating or Producing the Material / Product:

Recovered oil from various customers

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

Color : Varies - dark **Odor :** varies

Specific Gravity (Water=1) : API 21-29 **Density :** 0.88-0.93 lbs / gal

Layers : ☑ Single-Phas ☐ Multi-Phase

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

Container Size :

Number Of Units :

Proper U.S. DOT Shipping Name : Non-Hazardous, Non DOT regulated oil (per 40 CFR 279)

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

Flash Point >140	**pH** Neutral			**Solids** na %
Oil and Grease na mg/l	**TOC** na mg/l	**Zinc** na mg/l	**Copper** na mg/l	**Nickel** na mg/l

EPAHO103000279

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	100	%

SECTION 5: Safety Related Data

If the handling of this material / product 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 material / product profile.
None. Total halogens <1000 ppm

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Material Producer'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 : _____ **Date :** 9/23/2007

Printed Name / Title : Not required /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Prabhakar Thangudu Prabhakar Thangudu

Date : 9/23/2007 **Status :** Approved Rejected

Approval Number : 2363

Special Pricing / Analytical Info:
Test for flash, ash, API gravity, halogens; BS & W
Check shared drive for specific customer requirements

Recommended Treatment:

EPAHO103000280

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 **Gary Bailey**

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 # 2355

Expiration Date 9/13/2009

Generator: Tenaris Coiled Tubes, LLC
Address: 8615 Beltway 8 East
Houston, TX 77044

Waste Information

Name of Waste: Soapy water
TCEQ Waste Code #: 00201191
Container Type:
Detailed Description of Process Generating Waste:
Cleaning of tubes prior to hydrotesting
Color: 1 **Odor:** 8.34 **pH:** 10.6
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.

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 :	Tenaris Coiled Tube, LLC.		
Address :	8615 Beltway 8 East 8615 Beltway 8 East		
City, State, Zip :	Houston TX 77044		
Contact :	Gary Bailey	**Title :**	
Phone No :	(281) 458-2883	**Fax :**	(281) 459-2404
24 / HR Phone :			
U.S EPA I.D No :	TXR000049122		
State I.D :	20623	**SIC Code**	na

SECTION 2: Billing Information

Company :	Tenaris Coiled Tube, LLC.		
Address :	8615 Beltway 8 East 8615 Beltway 8 East		
City, State, Zip :	Houston TX 77044		
Contact :	Gary Bailey	**Title :**	
Phone No :	(281) 458-2883	**Fax :**	(281) 459-2404

SECTION 3: General Description of the Waste

Name of Waste : Soapy water

Detailed Description of the Process Generating Waste:

Cleaning of tubes prior to hydrotesting

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

Color : 1 **Odor :**

Specific Gravity (Water=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-Phas ☐ Multi-Phase

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

Container Size : 5500

Number Of Units : 4

Texas State Waste Code No : 00[illegible]1191

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material

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

EPAHO103000282

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	10.6	<50 mg/l	<50 mg/l	<2 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
<100 mg/l	>1000 mg/l	na mg/l	na mg/l	na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS / PPE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
water	95-99	%
cascade detergent	1-2	%
oil	0-1	%
rust, dirt	1-2	%

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.
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 generators 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 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 : Gary Bailey **Date :** 4-18-08

Printed Name / Title : Gary Bailey / Maint Manager

EPAHO103000283

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer : Robert C Vaughn

Date : 9/13/07 **Status :** (Approved) Rejected

Approval Number : OLD PROFILE# 2355

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

EPAHO103000284

- [x] 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
- [x] 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
- [x] 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.

EPAHO103000285

Tenaris

RECEIVED
SEP 19 2007
BY:

8615 E. Sam Houston Pkwy. N.
Houston, TX 77044
USA

(281) 458-2883 tel
(281) 458-2886 fax

www.tenaris.com

To Whom It May Concern:

Precision Tube Technology L.P. has merged into a newly formed company, **Tenaris Coiled Tubes, LLC.** Our physical address, facility, phone numbers or business interests have not changed. Again, please make note of the change in our name from Precision Tube Technology L.P. to Tenaris Coiled Tubes, LLC.

Regards,

Greg Jessen
Plant Controller
281-458-2883

Enterprise Products Operating LP
#2356

EPAHO10300287

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **9/14/2007**

Dear **Mike Tomerlin**

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 # 2356

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Contaminated stormwater
TCEQ Waste Code #: 00082192
Container Type:
Detailed Description of Process Generating Waste:
Stormwater contaminated with trace amounts of weed killer
Color: varies **Odor:** none **pH:** 6-8
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.

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 (Morgans Point Facilty)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen J. Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating LLC (Morgans Point Facility)		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Contaminated Storm Water
Detailed Description of Process Generating Waste: Storm water contaminated with trace amounts of weed killer

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

Color: varies **Odor:** none

Specific Gravity (water=1): 1 **Density:** 8.37 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): 5 **Other:** ____
Texas State Waste Code No: 00082192
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 6-8	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** NA%
Oil&Grease <1000mg/l	**TOC** <1000mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103000289

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	99-100	%
Weed Killer	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.
MSDS

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:** September 13, 2007

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Mangum

Date: 9-14-07 (Approved) Rejected

Approval Number: 2356

Process Facility Information:
$0.20/gal $400/load + fsc
QA/QC then redirect to newpark
OL

EPAHO103000290

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.

EPAHO103000292

Nufarm

CREDIT™ SYSTEMIC EXTRA HERBICIDE

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Nufarm Credit Systemic Extra Herbicide

Synonyms: None

EPA Reg. No.: 71368-20

Company Name: Nufarm Americas, Inc.
1333 Burr Ridge Parkway, suite 125A
Burr Ridge, IL 60521

Phone Numbers: **For Chemical Emergency, Spill, Leak, Fire, Exposure, Or Accident, Call CHEMTREC Day or Night: 1-800-424-9300.**
For Medical Emergencies Only, Call 877-325-1840.

Date: June 14, 2002

Revisions: New or updated information in all sections.

Reasons for Revisions: General revision utilizing more specific data.

Supersedes:

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% BY WEIGHT
Active Ingredient: Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt	38641-94-0 (as the salt) (1071-83-6 for glyphosate acid)	41.0
Inert Ingredients:		59.0
Inert Ingredient Component:		
Total		100.0

*Hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR Part 1910.1200). See Section 8 for exposure limits.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance and Odor: Clear, viscous greenish/yellow solution.

Warning Statements: Keep out of reach of children. CAUTION. Causes moderate eye irritation. Harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

Potential Adverse Health Effects:

Likely Routes of Exposure: Skin contact and inhalation.
Eye Contact: The undiluted product may cause pain, redness and tearing based on toxicity studies.
Skin Contact: This product is no more than slightly toxic and no more than slightly irritating based on toxicity studies.
Ingestion: This product is no more than slightly toxic based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung edema.
Inhalation: This product is no more than slightly toxic if inhaled based on toxicity studies.
Medical Conditions Aggravated by Exposure: None Known.
Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.
If on Skin: Wash thoroughly with soap and water.
If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
If Swallowed: This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

Flash Point: None
Autoignition Temperature: Not determined.
Hazardous Products of Combustion: CO_2, CO, NOx
Extinguishing Media: In case of fire, use water (flood with water), dry chemical, CO_2, or alcohol foam.
Unusual Fire or Explosion Hazards: None
Fire Fighting Equipment: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.
Large spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Contact appropriate state agency when considering a land spreading disposal option.
Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Any recovered spilled liquid should be collected and disposed of similarly.

7. HANDLING AND STORAGE

Handling:
Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. DO NOT REUSE THIS CONTAINER.

Spray solutions of this product should be mixed, stored or applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Storage:
Do not contaminate water, foodstuffs, feed or seed by storage or disposal. STORE ABOVE 10°F (-12°C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and shake or roll to mix well before using. Product is stable under normal conditions of storage and handling for at least 5 years. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment:
Eye Protection: Based on usage conditions, consider wearing chemical splash goggles during mixing/pouring operations or other activities in which eye contact with undiluted CREDIT Systemic Herbicide is likely to occur. Protective eyewear is not mandatory for mixing, pouring, application or other use of this product in accordance with label directions.

Skin Protection: Wear appropriate protective clothing to avoid skin contact. Applicators and other handlers must wear long-sleeved shirt, long pants, shoes plus socks and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Respiratory Protection: For Handling of the Undiluted Product: Undiluted CREDIT Systemic Herbicide is not likely to be present an airborne exposure concern during normal handling. If there is an accidental discharge of the material during manufacture or handling that produces a heavy vapor or mist, workers should use NIOSH/MSHA approved equipment. In work situations where an air purifying respirator is appropriate to be used, use of a full face respirator equipped with purifying elements for protection against organic vapor and dust/mist approved for pesticides is recommended. Use cartridges with MSHA/NIOSH approval number TC-23C or canister with MSHA/NIOSH approval number TC-14G. Full facepiece replaces the need for chemical goggles. Observe respirator use limitations specified by the manufacturers. Respiratory protection programs must comply with 29 CFR Part 1910.134.
For Application of Product Diluted in accordance with label instructions: Respirators are not required for applications of use - dilutions of this product.

Ventilation: No special precautions are recommended.

Airborne Exposure Limits:

Product/ Component	OSHA PEL	ACGIH TLV
CREDIT Systemic Herbicide	Not established	Not established
Ethoxylated Tallowamine	Not established	Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, viscous greenish/yellow solution
Odor: Odorless @ 23 degrees C
pH: 4.84 (1% solution)
Specific Gravity: 1.16 @ 20 degrees C
NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions of storage and handling. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.
Materials to Avoid: Acids and bases.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Does not occur. This product can react with caustic (basic) materials to liberate heat. This is not a polymerization but rather a chemical neutralization in an acid base reaction.

11. TOXICOLOGICAL INFORMATION

Product: Data from laboratory studies on this product are summarized below:

Single exposure (acute) studies indicate:
Oral: Practically Non-toxic (Rat LD_{50}: > 5,000 mg/kg); FIFRA Category IV
Dermal: Practically Non-toxic (Rat LD_{50}: > 5,000 mg/Kg); FIFRA Category IV
Inhalation: Slightly toxic (Rat 4-hr LC_{50}: > 2.05 mg/L); FIFRA Category IV
Eye Irritation: Rabbits (6): Moderately irritating (including transient corneal opacity) to unrinsed eyes. Mildly irritating to rinsed eyes. Unrinsed eyes cleared by day 7 and rinsed eyes cleared by 72 hours; FIFRA Category III
Skin Irritation: Rabbits (3); 4-hr exposure: Slightly irritating. Cleared in all animals within 72 hours; FIFRA Category IV
No skin allergy was observed in guinea pigs following repeated skin exposure.

Components: Data from laboratory studies and from the scientific literature on components of this product:

ISOPROPYLAMINE SALT OF GLYPHOSATE:
Data from studies with formulation comprised of 62% isopropylamine salt of glyphosate (MON 0139) indicate the following:
In repeat dosing studies (6-month), dogs fed MON 0139 exhibited slight weight changes. Following repeated skin exposure (30 weeks) to MON 0139, skin irritation was the primary effect in rabbits.
Additional toxicity information is available on glyphosate, the active herbicidal ingredient of MON 0139. Following repeated exposures (90-days) to glyphosate in their feed, decreased weight gains were noted at the highest test level in mice, while no treatment-related effects occurred in rats. Following repeated skin exposure (3 weeks) to glyphosate, slight skin irritation was the primary effect observed in rabbits. No skin allergy was observed in guinea pigs following repeated skin exposure. There was no evidence of effects on the nervous system, including delayed effects in chickens (repeat oral doses) or cholinesterase inhibition in rats (single oral doses). Reduced body weight gain and effects on liver tissues were observed at the high-dose level in one long-term (2 year) feeding study with rats, while no treatment-related effects occurred in a second study. No adverse effects were observed in feeding

studies with dogs. Glyphosate did not produce tumors in any of these studies. Based on the results from the chronic studies, EPA has classified glyphosate in category E (evidence of non-carcinogenicity for humans). No birth defects were noted in rats and rabbits given glyphosate orally during pregnancy, even at amounts which produced adverse effects on the mothers. Glyphosate was fed continuously to rats at very high dose levels for 2 successive generations. Toxicity was reported in offspring from the high dose, a level which also produced adverse effects on the mothers. In a 3 generation study conducted at lower dose levels, no effects were seen on the ability of male or female rats to reproduce. Glyphosate has produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells.

ETHOXYLATED TALLOWAMINE:
The surfactant component of CREDIT Herbicide is reported to cause irritation to the eyes and skin and may contribute to the irritation potential reported for this herbicide. Ingestion may produce gastrointestinal irritation, nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

This product has been shown to be slightly to moderately toxic in aquatic studies.

Rainbow Trout 96-hr LC_{50}:	22 mg/L (static)
Rainbow Trout 96-hr LC_{50}:	8.2 mg/L (dynamic)
Daphnia Magna 48-hr LC_{50}:	37 mg/L (aeration)
Daphnia Magna 48-hr LC_{50}:	24 mg/L (without aeration)
Bluegill Sunfish 96-hr LC_{50}:	5.8 mg/L (dynamic)
Bluegill Sunfish 96-hr LC_{50}:	14 mg/L (static)
Gammarus pseudolimnaeus 48-hr EC_{50}:	42 mg/L
Fathead minnow 96-hr LC_{50}:	9.4 mg/L
Channel Catfish 96-hr LC_{50}:	16mg/L
Chinook Salmon 96-hr LC_{50}:	20mg/L
Coho Salmon 96-hr LC_{50}:	2.1 mg/L
Algae S. Capricornutum 72-hr EC_{50}:	2.1 mg/L

This product has been shown to be practically non-toxic to avian species following subacute dietary exposure.

Bobwhite Quail 8-day LC_{50}:	>6300 ppm
Mallard Duck 8-day LC_{50}:	>6300 ppm

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.
DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue. Observe all label safeguards until container is destroyed.
PLASTIC BOTTLES AND NON-RETURNABLE PLASTIC DRUMS: Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
RETURNABLE / REFILLABLE CONTAINERS: After use, return the container to the point of purchase or designated locations. The container must only be refilled with this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return it to the point of purchase.

14. TRANSPORT INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

DOT Proper Shipping Name:	Not Applicable.
DOT Hazard Class / I.D. No.:	Not Applicable.
DOT Label:	Not Applicable.
U.S. Surface Freight Classification:	Weed killing compound, N.O.I.B.N.

15. REGULATORY INFORMATION

SARA Hazard Notification:
Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): Immediate.
Section 313 Toxic Chemical(s): Not Applicable.

Reportable Quantity (RQ) under U.S. CERCLA: Not applicable.

TSCA Inventory: All components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Nufarm, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm, Inc. be responsible for damages of any nature whatsoever resulting from the use or of reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

CREDIT™ is a trademark of Nufarm, Inc.

TENKOZ INC.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: "BUCCANEER®" Herbicide DATE: November, 1997

EPA Reg. No.: 524-445-65467 MSDS No.: S00013041

Tenkoz Inc., 100 North Point Center East, Suite 330, Alpharetta, GA 30022

FOR MEDICAL EMERGENCY CALL (collect calls accepted): 314-694-4000
FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night - 1-800-424-9300 Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted)

For additional non-emergency information, call: 800-332-3111

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% BY WEIGHT
Active Ingredient:		
Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt	1071-83-6	41.0
Inert Ingredients:		59.0
		100.0
Inert Ingredient Component: Ethoxylated Tallowamines*	61791-83-6	

*- Hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 8 for exposure limits.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Clear, viscous amber-colored solution

WARNING STATEMENTS:
Keep out of reach of children.

WARNING! AVISO!
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
HARMFUL IF SWALLOWED OR INHALED
REFORMULATION IS PROHIBITED
SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS

POTENTIAL HEALTH EFFECTS

LIKELY ROUTES OF EXPOSURE: Skin contact and inhalation

EYE CONTACT: BUCCANEER® Herbicide may cause pain, redness and tearing based on toxicity studies.

SKIN CONTACT: BUCCANEER® Herbicide is no more than slightly toxic and no more than slightly irritating based on toxicity studies.

INGESTION: BUCCANEER® Herbicide is no more than slightly toxic based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung edema.

INHALATION: BUCCANEER® Herbicide is no more than slightly toxic if inhaled based on toxicity studies.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES: Immediately hold eyelids open and flush with plenty of water. Get medical attention.

IF ON SKIN: Immediate first aid is not likely to be required. However, this material can be removed with soap and water. Wash heavily contaminated clothing before reuse.

IF INHALED: Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention

IF SWALLOWED: This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention

NOTE: For additional human emergency first aid or treatment guidance, call collect, anytime, day or night (314) 894-4000.

5. FIRE FIGHTING MEASURES

FLASH POINT: None METHOD: Pensky-Martens

AUTOIGNITION TEMPERATURE: Not determined.

HAZARDOUS PRODUCTS OF COMBUSTION: CO_2, CO, NOx

EXTINGUISHING MEDIA: In case of fire, use water (flood with water), dry chemical, CO_2, or alcohol foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

FIRE FIGHTING EQUIPMENT: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Large spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Contact appropriate state agency when considering a land spreading disposal option.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a

drum or other non-leaking container and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Any recovered spilled liquid should be similarly collected and disposed of.

7. HANDLING AND STORAGE

HANDLING: Do not get in eyes or on clothing. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. DO NOT REUSE THIS CONTAINER.

Spray solutions of this product should be mixed, stored or applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

STORAGE: Product is stable under normal conditions of storage and handling for at least 5 years. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear chemical splash goggles during mixing/pouring operations or other activities in which eye contact with undiluted BUCCANEER® Herbicide is likely to occur.

SKIN PROTECTION: Wear appropriate protective clothing to prevent skin contact. Applicators and other handlers must wear long-sleeved shirt, long pants, shoes plus socks and protective eyewear. Follow manufacturer's

instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

RESPIRATORY PROTECTION: For Handling of the Undiluted Product: Undiluted BUCCANEER® Herbicide is not likely to be present an airborne exposure concern during normal handling. If there is an accidental discharge of the material during manufacture or handling that produces a heavy vapor or mist, workers should use MSHA/NIOSH approved equipment. In work situations where an air purifying respirator is appropriate to be used, use of a full face respirator equipped with purifying elements for protection against organic vapor and dust/mist approved for pesticides is recommended. Use cartridges with MSHA/NIOSH approval number TC-23C or canister with MSHA/NIOSH approval number TC-14G. Full facepiece replaces the need for chemical goggles. Observe respirator use limitations specified by the manufacturers. Respiratory protection programs must comply with 29 CFR §1910.134.
For Application of Product Diluted in accordance with label instructions: Respirators are not required for applications of use - dilution's of BUCCANEER® Herbicide.
VENTILATION: No special precautions are recommended.

AIRBORNE EXPOSURE LIMITS:

PRODUCT/COMPONENT	OSHA PEL	ACGIH TLV
BUCCANEER® Herbicide	Not established	Not established
Ethoxylated Tallowamine	Not established	Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear, viscous amber-colored solution
Odor:	practically odorless to slight amine-like odor
pH:	4.7 (1% solution)
Specific Gravity:	1.17 @ 25/25 degrees C

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of storage and handling. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

MATERIALS TO AVOID: Acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Does not occur. This product can react with caustic (basic) materials to liberate heat. This is not a polymerization but rather a chemical neutralization in an acid base reaction.

11. TOXICOLOGICAL INFORMATION

Data from laboratory studies conducted with BUCCANEER® Herbicide are summarized below:

Single exposure (acute) studies indicate:

Oral - Practically Non-toxic (Rat LD_{50} >5,000 mg/Kg); FIFRA Category IV

Dermal - Practically Non-toxic (Rabbit LD_{50} >5000 mg/Kg); FIFRA Category IV

Inhalation - Slightly toxic (Rat 4-hr LC_{50} - 2.8 mg/L); FIFRA Category III

Eye Irritation - Rabbits (6); 24-hr exp.; Slight to Moderate Irritation, Eye irritation was evident at day 14 but cleared by day 21 after exposure in 1 animal; FIFRA Category II; EC: Corneal Opacity - 0.0, Iris - 0.0, Erythema - 1.7, Chemosis - 0.8

Skin Irritation - Rabbits (6); 4-hr exp.; Essentially Non-irritating: Slight erythema (redness) clearing in all animals within 24 hours; FIFRA Category IV; EC: Erythema - 0.0, Edema-0.0

No skin allergy was observed in guinea pigs following repeated skin exposure.

COMPONENTS

Data from laboratory studies conducted and from the scientific literature on components of BUCCANEER® Herbicide:

Isopropylamine Salt of Glyphosate

Data from studies with a formulation comprised of 62% isopropylamine salt of glyphosate indicate the following:

In repeat dosing studies (6-month), dogs fed the 62% isopropylamine salt of glyphosate exhibited slight body weight changes. Following repeated skin exposure (3-week) to the 62% isopropylamine salt of glyphosate, skin irritation was the primary effect in rabbits.

Additional toxicity information is available on glyphosate, the active herbicidal ingredient of 62% isopropylamine salt of glyphosate. Following repeated exposures (90-days) to glyphosate in their feed, decreased weight gains were noted at the highest test level in mice, while no treatment-related effects

primary effect observed in rabbits. No skin allergy was observed in guinea pigs following repeated skin exposure. There was no evidence of effects on the nervous system, including delayed effects in chickens (repeat oral doses) or cholinesterase inhibition in rats (single oral doses). Reduced body weight gain and effects on liver tissues were observed with long-term (2-year) feeding of glyphosate to mice at high-dose levels. Reduced body weight gain and eye changes were observed at the high-dose level in one long-term (2 year) feeding study with rats, while no treatment-related effects occurred in a second study. No adverse effects were observed in feeding studies with dogs. Glyphosate did not produce tumors in any of these studies. Based on the results from the chronic studies, EPA has classified glyphosate in category E (evidence of non-carcinogenicity for humans). No birth defects were noted in rats and rabbits given glyphosate orally during pregnancy, even at amounts which produced adverse effects on the mothers. Glyphosate was fed continuously to rats at very high dose levels for 2 successive generations. Toxicity was reported in offspring from the high dose, a level which also produced adverse effects on the mothers. In a 3 generation study conducted at lower dose levels, no effects were seen on the ability of male or female rats to reproduce. Glyphosate has produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells.

Primary Irritation:

The surfactant component of BUCCANEER® Herbicide is reported to cause irritation to the eyes and skin and may contribute to the irritation potential reported for this herbicide. Ingestion may produce gastrointestinal irritation, nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

BUCCANEER® Herbicide has been shown to be slightly to moderately toxic in aquatic studies. BUCCANEER® Herbicide has been shown to be practically non-toxic to avian species following subacute dietary exposure.

Rainbow Trout 96-hr LC_{50}	22 mg/L (static)	Fathead minnow 96-hr LC_{50}	9.4 mg/L
Rainbow Trout 96-hr LC_{50}	8.2 mg/L (dynamic)	Channel catfish 96-hr LC_{50}	16 mg/L
Daphnia Magna 48-hr LC_{50}	37 mg/L (nominal)	Chinook Salmon 96-hr LC_{50}	20 mg/L
Daphnia Magna 48-hr LC_{50}	24 mg/L (without aeration)	Coho Salmon 96-hr LC_{50}	22 mg/L
Bluegill Sunfish 96-hr LC_{50}	5.8 mg/L (dynamic)	Algae S. Capricornutum 72-hr EC_{50}	2.1 mg/L
Bluegill Sunfish 96-hr LC_{50}	14 mg/L (static)	Bobwhite Quail 8-day LC_{50}	> 6300 ppm
Gammarus pseudolimnaeus 48-hr EC_{50}	42 mg/L	Mallard Duck 8-day LC_{50}	>6300 ppm

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

Metal Drums: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Metal Bulk: Triple rinse emptied bulk containers. Then offer for recycling or reconditioning or disposal in a manner approved by state and local authorities.

Plastic Drums and mini bulk: Do not reuse container. If not returned, triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed, by state and local authorities, by

burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

DOT Proper Shipping Name: Not Applicable

DOT Hazard Class/I.D. No.: Not Applicable

DOT Label: Not Applicable

U.S. Surface Freight Classification: Weed killing compound, N.O.I.B.N.

15. REGULATORY INFORMATION

SARA Hazard Notification:

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): Immediate

Section 313 Toxic Chemical(s): Not Applicable

Reportable Quantity (RQ) under U.S. CERCLA: Not Applicable

TSCA Inventory: All components are on the US EPA's TSCA Inventory List

16. OTHER INFORMATION

REASON FOR REVISION: New Supersedes MSDS dated: New

BUCCANEER® is a trademark used under license

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Tenkoz Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Tenkoz Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

buccmsds.rtf7.doc

Enterprise Products Operating 2360
#2360

EPAHO103000305

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/17/2007**

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 # 2360

Producer: Enterprise Products Operating, L.P.
Address: 10207 FM 1942, Attn: Rachel Wheaton
Mont Belvieu, TX 77580

Material / Product Information

Name of Material / Product West Texas caustic
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
1st process (Merox process): Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (converting mercaptan sulfurs to disulfide sulfu

Color: dark **Odor:** sulfide **pH:** 12-14
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
Standard PPE (caustic suits)

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: Material Producer Information

Company :	Enterprise Products Operating, L.P.		
Address :	10207 FM 1942, Attn: Rachel Wheaton PO Box 573		
City, State, Zip :	Mont Belvieu TX 77580		
Contact :	Mike Tomerlin	**Title :**	
Phone No :	(281) 385-4200	**Fax :**	(281) 385-4532
24 / HR Phone :			
U.S EPA I.D No :	na		
State I.D :	na	**SIC Code**	na

SECTION 2: Billing Information

Company :	Enterprise Products Operating, L.P.		
Address :	10207 FM 1942, Attn: Rachel Wheaton PO Box 573		
City, State, Zip :	Mont Belvieu TX 77580		
Contact :	Mike Tomerlin	**Title :**	
Phone No :	(281) 385-4200	**Fax :**	(281) 385-4532

SECTION 3: General Description of the Material / Product

Name of Mateiral / Product : WEST TEXAS CAUSTIC

Detailed Description of the Process Generating or Producing the Material / Product:

1st process(Merox process): Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (converting mercaptan sulfurs to disulfide sulfur

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

Color : dark **Odor :** sulfide

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

Layers : ☑ Single-Phas ☐ Multi-Phase

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

Container Size : 5000

Number Of Units : 4

Proper U.S. DOT Shipping Name : Sodium hydroxide solution

Class : 8 **UN/NA :** UN1824 **PG :** II **RQ :** 1000

Flash Point	pH			Solids
>160	12-14			0-2 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
na mg/l	na mg/l	na mg/l	na mg/l	na mg/l

EPAHO103000307

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
sodium hydroxide	5-10	%
water	90-95	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
standard PPE (caustic suits)

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 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 : N/A **Date :** 9/1/2007

Printed Name / Title : not required /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Prabhav Ranade

Date : 9/17/2007 **Status :** Approved Rejected

Approval Number : 2360

Special Pricing / Analytical Info:

QC - if solids <.75% & caustic >5%, ship to KMTEX. If solids <.75% & caustic <5%, put in RO tank and perform RO. If solids higher, filter before putting in RO tank.
$.33/gallon (add $.15/gallon for solids greater than .75%) and $400 trucking plus fsc

EPAHO103000308

CES
2361

2361

EPAHO10300309

Copy

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/17/2007**

Dear **Matt Bowman**

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 # 2361

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product Morpholine
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Off spec product
Color: Clear, colorless **Odor:** Amine **pH:** 10-12
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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: Material Producer Information

Company: CES ENVIRONMENTAL SERVICES, INC
Address: 4904 GRIGGS RD
City, State, Zip: HOUSTON, TX, 77021
Contact: KELLI LOFTON Title:
Phone No: 713-676-1460 Fax No: 713-676-16[illegible]16
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 Material / Product

Name of Material / Product: MORPHOLINE
Detailed Description of Process Generating or Producing the Material / Product: OFF SPEC PRODUCT

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

Color: clear, colorless Odor: AMINE

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

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): Other:

Proper U.S. DOT Shipping Name: Morpholine CORROSIVE
Class: 8 UN/NA: UN2054 Corrosive Liquids, n.o.s PG: I RQ:

Flash Point 100° F	pH 10-12	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

EPAHO103000312

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Morpholine	100	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

see MSDS

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:** 9-17-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Technical Manager: Barbara Thayer Date: 9-17-07 (Approved) Rejected Approval Number: 2361	PULL SAMPLE - NO ANALYTICAL NEEDED. COMPLETE OUTBOUND LOAD REPORT.

EPAHO103000313

MSDS Number: **M8155** * * * * * *Effective Date:* ***05/06/05*** * * * * * *Supercedes:* ***04/04/02***

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.

MORPHOLINE

1. Product Identification

Synonyms: Diethyleneimide oxide; tetrahydro-p-isoxazine
CAS No.: 110-91-8
Molecular Weight: 87.12
Chemical Formula: -NH(CH2)2O(CH2)2- (heterocyclic)
Product Codes:
J.T. Baker: R357
Mallinckrodt: 1884

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Morpholine	110-91-8	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AFFECTS THE LIVER AND KIDNEYS. FLAMMABLE LIQUID AND VAPOR.

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 (Corrosive)
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER
Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:
Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Ingestion:
Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.
Skin Contact:
Corrosive. Caustic vapors may cause irritation, redness, and pain. Contact may cause skin burns and absorption; symptoms may include hypoactivity, tremors, lacrimation, and salivation. Death may occur from prolonged exposure.
Eye Contact:
Corrosive. Caustic vapors may cause irritation, redness, pain, foggy vision, and corneal edema. Contact may cause eye damage.
Chronic Exposure:
Prolonged or repeated exposure through any route may cause liver, kidney, and lung damage.
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 immediately.
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.
Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. 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: 38C (100F) OC
Autoignition temperature: 310C (590F)
Flammable limits in air % by volume:
lel: 1.8; uel: 11.0
Flammable. (lel value is calculated; uel is estimated).

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. Moderate explosion hazard when heated. Sealed containers may rupture when heated. Sensitive to static discharge.

Fire Extinguishing Media:

Dry chemical, alcohol foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.

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 type tools and equipment, including explosion proof ventilation. 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):
20 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):
20 ppm (TWA) skin
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.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge 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-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:
Characteristic amine odor. Odor is detectable above 0.1 ppm.
Solubility:

Miscible in water.
Specific Gravity:
1.0 @ 20/4C
pH:
ca. 11 For 25% soln.
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
128C (262F)
Melting Point:
-5C (23F)
Vapor Density (Air=1):
3.0
Vapor Pressure (mm Hg):
10 @ 23C (73F)
Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Cellulose nitrate, nitromethane, other nitro compounds, strong acids, and oxidizing agents. Corrosive to metals.
Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Oral rat LD50: 1450 mg/kg; inhalation LC50: 8000 ppm/8H; skin rabbit LD50: 1220 mg/Kg. Investigated as a tumorigen, mutagen.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Morpholine (110-91-8)	No	No	3

12. Ecological Information

Environmental Fate:
When released into the soil, this material may biodegrade to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is not expected to biodegrade. When released into water, this material may evaporate to a moderate extent. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition. When released into the air, this material is expected to have a half-life of less than 1 day.
Environmental Toxicity:
No information found.

13. Disposal Considerations

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: MORPHOLINE
Hazard Class: 8, 3
UN/NA: UN2054
Packing Group: I
Information reported for product/size: 4L

International (Water, I.M.O.)

Proper Shipping Name: MORPHOLINE SOLUTION
Hazard Class: 8, 3
UN/NA: UN2054
Packing Group: I
Information reported for product/size: 4L

15. Regulatory Information

--------\Chemical Inventory Status - Part 1\---------------------------------

Ingredient	TSCA	EC	Japan	Australia
Morpholine (110-91-8)	Yes	Yes	Yes	Yes

--------\Chemical Inventory Status - Part 2\---------------------------------

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Morpholine (110-91-8)	Yes	Yes	No	Yes

--------\Federal, State & International Regulations - Part 1\----------------

Ingredient	-SARA 302- RQ	TPQ	------SARA 313------ List	Chemical Catg.
Morpholine (110-91-8)	No	No	No	No

--------\Federal, State & International Regulations - Part 2\----------------

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Morpholine (110-91-8)	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: 2P
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: **3** Flammability: **3** Reactivity: **0**
Label Hazard Warning:
DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT.
HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
AFFECTS THE LIVER AND KIDNEYS. FLAMMABLE LIQUID AND VAPOR.
Label Precautions:
Do not breathe vapor.
Do not get in eyes, on skin, or on clothing.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat, sparks and flame.

Label First Aid:
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing 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, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Product Use:
Laboratory Reagent.

Revision Information:
No Changes.

Disclaimer:
****

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
****

Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2362**

Customer: **Goodman Manufacturing (Furnace Plant)**

Waste Generator: **Goodman Manufacturing (Furnace Plant)**

Waste Stream Name: **Non hazardous rainwater**

Expiration Date: **9/17/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

✓ No changes, please recertify.

Please send new profile as waste stream has changed.

Goodman Mfg
Customer Name

Kenny K Ha
Signature

EHS Coordinator
Company / Title

7/16/09
Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

CES 2363
#2363

EPAHO10300323

72
8-4-09
LAB
T-34

Copy

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **9/23/2007**

Dear

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 # 2363

Producer: CES Environmental Services, Inc.
Address: 4904 Griggs Rd
Houston, TX 77021

Material / Product Information

Name of Material / Product ~~Used oil~~ Recovered Black Oil
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Recovered oil from various customers

Color: Varies - dark **Odor:** varies **pH:** Neutral
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Standard 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

SECTION 1: Material Producer Information

Company :	CES Environmental Services, Inc.		
Address :	4904 Griggs Rd 4904 Griggs Road		
City, State, Zip :	Houston TX 77021		
Contact :	Matt Bowman	**Title :**	
Phone No :	(713) 676-1460	**Fax :**	
24 / HR Phone :			
U.S EPA I.D No :	TXD008950461		
State I.D :	30900	**SIC Code**	

SECTION 2: Billing Information

Company :	CES Environmental Services, Inc.		
Address :	4904 Griggs Rd 4904 Griggs Road		
City, State, Zip :	Houston TX 77021		
Contact :	Matt Bowman	**Title :**	
Phone No :	(713) 676-1460	**Fax :**	

SECTION 3: General Description of the Material / Product

Name of Mateiral / Product : Used oil

Detailed Description of the Process Generating or Producing the Material / Product:

Recovered oil from various customers

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

Color : Varies - dark **Odor :** varies

Specific Gravity (Water=1) : API 21-29 **Density :** 0.88-0.93 lbs / gal

Layers : ☑ Single-Phas ☐ Multi-Phase

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

Container Size :

Number Of Units :

Proper U.S. DOT Shipping Name : Non-Hazardous, Non DOT regulated oil (per 40 CFR 279)

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

Flash Point >140	**pH** Neutral			**Solids** na %
Oil and Grease na mg/l	**TOC** na mg/l	**Zinc** na mg/l	**Copper** na mg/l	**Nickel** na mg/l

EPAHO103000327

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	100	%

SECTION 5: Safety Related Data

If the handling of this material / product 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 material / product profile.
None. Total halogens <1000 ppm

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Material Producer'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 : N/A **Date :** 9/23/2007

Printed Name / Title : Not required /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Prabhakar Thangudu

Date : 9/23/2007 **Status :** Approved Rejected

Approval Number : 2363

Special Pricing / Analytical Info:
Test for flash, ash, API gravity, halogens; BS & W
Check shared drive for specific customer requirements
Recommended Treatment:

EPAHO103000328

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910 1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER Black
Common Name: **CES Recovered Oil (Grade II)**

SECTION 1 – MANUFACTURER'S NAME

Manufacturer's Name:	CES Environmental Services, Inc.		
Address:	4904 Griggs Road	Emergency Telephone No.	(713) 676-1460
City, State, and Zip:	Houston, Texas 77021	Other Information Call:	(713) 676-1460
Signature of Person Responsible for Preparation (optional):	Matt Bowman	Date Prepared:	1/15/07

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) Chemical & Common Name(s):	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS No.
Recycled, Dewatered Petroleum Oils	5mg/M^3	5mg/M^3			68476-33-5
Contains:					
Aliphatic and Aromatic Petroleum Hydrocarbons **				99%	
Halogens				<1000 ppm	
Polynuclear Aromatic Hydrocarbons				<0.01%	
Water and Sediment				<3.0%	
Ash				<0.75%	

* 5mg/M^3 ACGIH TLV and OSHA PEL for mineral oil mists.

** Including but not limited to used motor oil and used industrial oils.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point:	450^{0}F	Specific Gravity: ($H_2$0 ml)	0.87-0.91	Vapor Pressure: (mm Hg)	0.4
		Vapor Density (Air = 1)	Unavailable		
Solubility In Water:	Nil	Reactivity in Water:	None		
Appearance And Color:	Dark color w/petroleum odor	Melting Point:	Not applicable		

Flash Point (PMCC):	>140^{0}F	Sodium:	<50.0 ppm
Arsenic:	<2.0 ppm	Aluminum:	<15.0 ppm
Cadmium	<1.0 ppm	Chromium	<2.0 ppm
Vanadium	<1.0 ppm	Lead	<100.0 ppm
Sulfur	<0.4%	PCB	<2.0 ppm

All product is filtered through 400 micron filters.
Saybolt Viscosity: 140^{0}F 88-105 SUS

Typical Btu 17,000/lb and higher

EPAHO103000329

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard
29CFR 1910 1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER
Common Name: **CES Recovered Oil (Grade II)**

SECTION 4 – FIRE & EXPLOSION DATA

Flash Point: Min 140 F | Method Used: Close Cup | Flammable Limits in Air % by Volume: LEL Lower Unknown, UEL Upper Unknown

Auto – Ignition Temperature: N/A | Extinguisher: Carbon Dioxide/Foam/Dry Chemical/Water Mist

Special Fire Fighting Procedures: Self-contained breathing apparatus to protect against the hazardous effects of combustible products and oxygen deficiencies.

Unusual Fire and Explosion Hazards: **NFPA Class: Combustible Liquid II**
When heated above its flashpoint, this material will release vapors which can burn or be explosive in confined spaces if exposed to a source of ignition.

SECTION 5 – PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Unstable ☐ Stable ☒ | Conditions to Avoid: Stable

Incompatibility (materials to avoid): Strong Oxidizing Agents

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, and Sulfur Dioxide

Hazardous Polymerization: May Occur ☐ Will Not Occur ☒ | Conditions to Avoid: Incomplete combustion may form carbon monoxide.

SECTION 6 – HEALTH HAZARDS

1. Acute
May cause eye and skin irritation.

Signs and Symptoms of Exposure: Skin: Irritation/Dermatitis.
Eyes: Irritation, Redness, and Tearing

Medical Conditions Generally Aggravated by Exposure: Skin Irritation/Dermatitis

2. Chronic:
In a laboratory study, mice developed skin cancer after their skin was exposed to used motor oil twice a week without being washed off for most of their life span. While this one study is not conclusive, substances found to cause cancer in laboratory animals may also cause cancer in humans.

Chemical Listed as Carcinogen or Potential Carcinogen: N/A | National Toxicologic Program: Yes ☐ No ☒ | I.A.R.C Monographs: Yes ☐ No ☒ | OSHA: Yes ☐ No ☒

Emergency and First Aid Procedures: EYES: Flush eyes with plenty of water for several minutes. Get medical attention if irritation persists.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

INGESTION: Do not induce vomiting. Get medical attention.

INHALATION: If irritation, headache, nausea or drowsiness occurs, move to fresh air. Get medical attention if breathing becomes difficult or irritation persists.

EPAHO103000330

	1. Irritation:	Not expected to be a problem unless oil mists are generated.
ROUTES OF ENTRY	2. Eyes:	Mild irritant. Use splash protection goggles.
	3. Sun:	Mild irritant. Use gloves and protection.
	4. Ingestion:	Low toxicity. Do not take internally.

SECTION 7 – SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken at Handling and Storage: Use skin protection, gloves, and eye protection.

Other Precautions: Do not use welding or cutting torch on or near container or storage vessel.

Steps to be taken in case material is released or spilled: Contain spill using oil absorbents (granular, pads, booms). Remove flame sources.

Waste Disposal Methods (consult Federal, State, and Local Regulations): Follow Federal and State disposal regulations.

SECTION 8 – SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (specify type): Not required under normal conditions of use. If oil mists are generated above 5 mg/m^3, then a NIOSH/MSHA approved respirator is advised in the absence of proper environmental controls.

Ventilation: Not required under normal conditions of use. | Local Exhaust N/A | Mechanical (general) Below TLV's | Special N/A | Other N/A

Protective Gloves: Neoprene or rubber

Eye Protection: Safety glasses or goggles

Other Protective Clothing or Equipment: Impervious clothing and boots

Work/Hygienic Practices: Do not take internally; avoid skin contact; wash hands thoroughly; and do not get in eyes.

WEATHERFORD INTERNATIONAL. < Pit
2312

EPAHO10300332

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2312

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Diesel fuel
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water contaminated diesel product
Color: pink, clear **Odor:** diesel fuel **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.

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:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCESQ6		
State I.D.	~~TBD~~ 88167	**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: Diesel Fuel
Detailed Description of Process Generating Waste: Water Contaminated diesel product

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

Color: pink, clear **Odor:** diesel fuel

Specific Gravity (water=1): .85 **Density:** 8 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: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Combustible Liquid, n.o.s., combustible liquid, NA 1993, PG-III
Class: combus tible liq. **UN/NA:** NA 1993 **PG:** PG-III **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	NA	0mg/l	0mg/l	<3%

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

EPAHO103000334

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Diesel Fuel	80-100	%
Water	0-20	%
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.
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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. Jackson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thayer

Date: 9-6-07 Approved Rejected

Approval Number: 2312

Additional Information: $ 40.00/Drum
Trans 200.00/4 FSC
Product - REC

EPAHO103000335

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

EPAHO103000336

(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.

EPAHO103000337

WEATHERFORD INTERNATIONAL < Pin 2313
2313

EPAHO103000338

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2313

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: RCRA empty containers
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Empty containers last containing various products
Color: various **Odor:** none **pH:** neutral
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:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCESQG		
State I.D.	~~TBD~~ 88167	**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: RCRA Empty Containers
Detailed Description of Process Generating Waste: Empty Containers last containing various products

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

Color: various **Odor:** none

Specific Gravity (water=1): 1.2 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☒	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		55 gal		300 gal	____		____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☒ Yearly
Number of Units (containers): 10/3 **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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
none	neutral	0mg/l	0mg/l	100%

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

EPAHO103000340

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Empty Metal Drums	50-100	%
Empty Poly Drums	20-40	%
Empty Poly Totes	50-100	%

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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. JACKSON

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: 10.00/ea

Date: 9-6-07 Approved Rejected Trans 200.00 + FSC

Approval Number: 2313 REC

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

EPAHO103000342

(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.

EPAHO103000343

Enterprise Products Morgan 0344
2314

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Mike Tomerlin**

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 # 2314

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Ethylene glycol
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused ethylene glycol remaining from operations
Color: green **Odor:** none **pH:** neutral
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.

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 (Morgans Point Complex)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen J. Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating LLC (Morgans Point Complex)		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Ethylene Glycol
Detailed Description of Process Generating Waste: Unused ethylene glycol remaining from operations

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

Color: green **Odor:** none

Specific Gravity (water=1): 1.125 **Density:** 8.34 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): 4 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non Regulated Recyclabel Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	neutral	NAmg/l	NAmg/l	0%

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

EPAHO103000346

SECTION 4: Physical and Chemical Data

[redacted]	[redacted]	[redacted]
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Antifreeze/Coolant	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.
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: 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:** September 5, 2007

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: [signature]	$35.00/drum
Date: 9-6-07 Approved Rejected	Mix with glycols
Approval Number: 2314	REC

EPAHO103000347

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

EPAHO103000348

(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.

EPAHO103000349

ambitrol

MATERIAL SAFETY DATA SHEET

I. MATERIAL IDENTIFICATION

Name: Antifreeze/Coolant, Conoco
Conoco Product Code: 2110
Synonyms: Ethylene Glycol
Manufacturer: Conoco Inc.
Address: P.O. Box 1267, Ponca City, OK 74603

CAS Registry No.: Mixture; major components may be some combination of 107-21-1
Transportation Emergency No.: (800) 424-9300 (Chemtrec)
Product Information No.: (405) 767-6000

II. HAZARDOUS INGREDIENTS — HAZARD DATA

Hazard Determination:

Health Effect Properties:
Ethylene glycol — Toxic to nervous system, kidney and liver.

Physical Effect Properties:
Product/Mixture: None. — Not Applicable.

III. PHYSICAL DATA

Appearance and Odor: Fluorescent green liquid; mild glycol odor.

Boiling Point (°F)	320	Specific Gravity (H_2O=1)	1.125
Vapor Pressure (mmHg)	0.05	% Volatile (by volume)	Not Applicable
Vapor Density (Air=1)	2.14	Evaporation Rate (=1)	Not Applicable
Solubility in Water	Completely		

IV. REACTIVITY DATA — Stable: X Unstable:

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, vapors of ethylene glycol.

Conditions To Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur.

November 4, 1985/ANTC0010

V. FIRE AND EXPLOSION HAZARD DATA — LFL: 3.2 — UFL: 15.3

Flash Point (Method used): 230° F (PMCC)

Handle and store in accordance with NFPA procedure for Class III B Combustible Liquid.

Extinguishing Media: Use water spray, dry chemical, alcohol resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection. If water evaporates off, residual materials could burn. Small amounts of oxides of nitrogen can be produced.

National Fire Protection Agency (NFPA) CLASSIFICATION	HAZARD RATING
Health 1 Fire 1 Reactivity 0	Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

VI. TRANSPORTATION AND STORAGE — DOT HAZARD CLASS: Not Applicable

Precautions To Be Taken In Handling And Storing: Product is Class III B Combustible Liquid per NFPA Code No. 30-1984. Store and handle accordingly.

Shipping Paper Description: Not D.O.T. Regulated.

Placard: Not D.O.T. Regulated.

D.O.T. Label: Not Regulated.

OSHA Label: WARNING: Contains ethylene glycol. Harmful or fatal if swallowed. If swallowed, immediately induce vomiting and call a physician. Overexposure may cause nervous system depression, kidney damage or irritation. Do not store in open or unlabeled containers. Keep out of reach of children and animals. Do not reuse this container.

VII. HEALTH HAZARD INFORMATION

PEL Not available TLV 50 ppm or 125 mg/m^3 (Ceiling values)*

Ceiling Value 50 ppm or 125 mg/m^3 *

AEL 50 ppm or 10 mg/m^3 as a time-weighted average*.

* These values are for ethylene glycol.

November 4, 1985/ANTC0010

VII. HEALTH HAZARD INFORMATION (continued)

Primary Routes of Exposure/Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated By Exposure:

No adverse health effect has been identified specifically for this product. Health effect information has been included for components of the product.

Ethylene glycol may cause irritation to eyes, lungs, or skin. Overexposure may cause central nervous system depression and liver or kidney toxicity.

Reproduction studies in mice and rats have shown that extremely high doses, which were toxic to the pregnant female, were also toxic to the newborn and caused birth defects. In this regard, the volatility of ethylene glycol is quite low and exposure to the chemical should be easy to control.

Listed as Carcinogen or Potential Carcinogen by: NTP No IARC No OSHA No

VIII. EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately wash with fresh water for at least 15 minutes and get medical attention.

Skin: Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation persists, consult a physician.

Launder contaminated clothing before reuse. Extremely contaminated leather shoes should be discarded.

Inhalation: If overexposure occurs, remove individual to fresh air. If breathing stops, administer artificial respiration.

Ingestion: If this material is swallowed, induce vomiting. If vomiting begins, lower victim's head in an effort to prevent vomitus from entering lungs. Immediately consult a physician. Do not attempt to give liquid to an unconscious person.

Note to Physicians: Emergency procedure for ethylene glycol intoxication should be followed.

EPAHQ103000352

IX. SPILL, LEAK AND DISPOSAL PROCEDURES

RCRA HAZARDOUS WASTE: Yes____ No__X__

In Case Of Spill Or Leak: Contain spill immediately in smallest area possible. Recover as much of the product itself as possible by such methods as vacuuming, followed by soaking up residual fluids by use of absorbent materials. Remove contaminated items including soils and place in proper container for disposal. Avoid washing, draining or directing material to storm or sanitary sewers.

Waste Disposal Method: Recycle as much of the recoverable product as possible. Dispose of nonrecyclable material by such methods as controlled incineration, complying with federal, state and local regulations.

X. PRECAUTIONARY MEASURES

Respiratory Protection: None normally required except under unusual circumstances such as described in Section V.

Ventilation: Normal shop ventilation.

Protective Gloves: Impervious.

Eye Protection: Chemical goggles.

Other Protective Equipment: Not normally required.

The above data is based on tests and experience which Conoco believes reliable and are supplied for informational purposes only. CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA AND NOTHING CONTAINED THEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE PRODUCT DESCRIBED, OR THEIR USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

EPAHQ103000252

Enterprise Products Morgan 2315

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Mike Tomerlin**

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 # 2315

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Dirty water
TCEQ Waste Code #: 11051142
Container Type:
Detailed Description of Process Generating Waste:
Water and dirt generated from cleaninng floor of storage building
Color: varies **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

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:	Enterprise Products Operating LLC (Morgans Point Complex)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen J. Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating LLC (Morgans Point Complex)		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Dirty Water
Detailed Description of Process Generating Waste: water and dirt generated from cleaning floor of storage building

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

Color: varies **Odor:** none

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 gal ____ ____ ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 10 **Other:** ____
Texas State Waste Code No: 11051142
Proper U.S. DOT Shipping Name: Non RCRA Non Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 1-2%
Oil&Grease NAmg/l	**TOC** NAmg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103000356

SECTION 4: Physical and Chemical Data

[redacted]	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	98-100	%
Dirt	1-2	%

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.
Analytical 7040953

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: 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:** September 4, 2007

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thompson

Date: 9-6-07 (Approved) Rejected

Approval Number: 2315

Process Facility Information:

$40.00/DM

IL

EPAHO103000357

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

EPAHO103000358

(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.

EPAHO103000359

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: **Sean Easton**

- CERTIFICATE OF RESULTS -

MES Lab#: 7040953

Client Sample ID: Floor Washings
Extended ID: Morgans Point

Project#: Enterprise

Sample Collect Date: 4/24/2007 @ 9:00:00 AM
Sample Receipt Date: 4/24/2007 @ 4:40:00 PM

Sample Type: Comp

Test Group / Method

BTEX Method: SW-846 8021B	MDL	Result	Units	Analyst: TFR Date / Time
Benzene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
Toluene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
Ethyl benzene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
M+P-Xylene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
o-Xylene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
>C12 - C28 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
>C28 - C36 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
Total TPH	15	< 15	mg/L	4/28/2007 / 9:37 AM

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	< 0.014	mg/L	4/26/2007 / 10:4[illegible] PM
Barium	0.0005	100	**0.0537**	**mg/L**	4/26/2007 / 10:4[illegible] PM
Cadmium	0.002	1	< 0.002	mg/L	4/26/2007 / 10:4[illegible] PM
Chromium	0.002	5	**0.003**	**mg/L**	4/26/2007 / 10:4[illegible] PM
Lead	0.005	5	< 0.005	mg/L	4/26/2007 / 10:4[illegible] PM
Selenium	0.024	1	< 0.024	mg/L	4/26/2007 / 10:4[illegible] PM
Silver	0.002	5	< 0.002	mg/L	4/26/2007 / 10:4[illegible] PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	4/26/2007 / 5:00 PM

EPAHO103000360

- CERTIFICATE OF RESULTS -

MES Lab#: 7040953

Client Sample ID: Floor Washings
Extended ID: Morgans Point

Project#: Enterprise

Sample Collect Date: 4/24/2007 @ 9:00:00 AM
Sample Receipt Date: 4/24/2007 @ 4:40:00 PM

Sample Type: Comp

TCLP Metals Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Antimony	0.032	1	**0.035**	mg/L	4/26/2007 / 10:40 PM
Beryllium	0.0005	0.08	**0.0022**	mg/L	4/26/2007 / 10:40 PM
Nickel	0.003	70	**0.023**	mg/L	4/26/2007 / 10:40 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, May 08, 2007
Date

EPAHO103000361

7040953

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTES	METHOD TPH1005	MB mg/L	CCV %REC	MS %REC	MSD %REC
C6-C12		< 5	90.8	86.1	85.9
C12-C28		< 5	103.0	89.9	83.6

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	CCV %REC
Benzene		< 0.005	87.6	90.3	3.04	107.6
Toluene		< 0.005	78.6	84.1	6.76	105.2
Ethylbenzene		< 0.005	95.4	100.6	5.31	103.6
m+p Xylene		< 0.005	87.6	92.6	5.55	101.8
o-Xylene		< 0.005	90.8	95.8	5.36	101.4

SURROGATE SPIKE RECOVERY FOR BTEX	% REC
4-Bromofluorobenzene	112.1

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
Rec=Percent Recovery

Signature: _____ May 8, 2007

Holland D. Gilmore / Laboratory Director

EPAHO103000362

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: **Sean Easton**

- CERTIFICATE OF RESULTS -

MES Lab#: 7040953

Client Sample ID: Floor Washings
Extended ID: Morgans Point

Project#: Enterprise

Sample Collect Date: 4/24/2007 @ 9:00:00 AM
Sample Receipt Date: 4/24/2007 @ 4:40:00 PM

Sample Type: Comp

Test Group / Method

BTEX Method: SW-846 8021B	MDL	Result	Units	Analyst: TFR Date / Time
Benzene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
Toluene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
Ethyl benzene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
M+P-Xylene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM
o-Xylene	0.005	< 0.005	mg/L	4/27/2007 / 7:36 AM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
>C12 - C28 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
>C28 - C36 Hydrocarbons	5	< 5	mg/L	4/28/2007 / 9:37 AM
Total TPH	15	< 15	mg/L	4/28/2007 / 9:37 AM

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	< 0.014	mg/L	4/26/2007 / 10:40 PM
Barium	0.0005	100	**0.0537**	**mg/L**	4/26/2007 / 10:40 PM
Cadmium	0.002	1	< 0.002	mg/L	4/26/2007 / 10:40 PM
Chromium	0.002	5	**0.003**	**mg/L**	4/26/2007 / 10:40 PM
Lead	0.005	5	< 0.005	mg/L	4/26/2007 / 10:40 PM
Selenium	0.024	1	< 0.024	mg/L	4/26/2007 / 10:40 PM
Silver	0.002	5	< 0.002	mg/L	4/26/2007 / 10:40 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	4/26/2007 / 5:00 PM

EPAHO103000363

- CERTIFICATE OF RESULTS -

MES Lab#: 7040953

Client Sample ID: Floor Washings
Extended ID: Morgans Point

Project#: Enterprise

Sample Collect Date: 4/24/2007 @ 9:00:00 AM
Sample Receipt Date: 4/24/2007 @ 4:40:00 PM

Sample Type: Comp

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Tuesday, May 01, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103000364

7040953

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTES	METHOD TPH1005	MB mg/L	CCV %REC	MS %REC	MSD %REC
C6-C12		< 5	90.8	86.1	85.9
C12-C28		< 5	103.0	89.9	83.6

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	CCV %REC
Benzene		< 0.005	87.6	90.3	3.04	107.6
Toluene		< 0.005	78.6	84.1	6.76	105.2
Ethylbenzene		< 0.005	95.4	100.6	5.31	103.6
m+p Xylene		< 0.005	87.6	92.6	5.55	101.8
o-Xylene		< 0.005	90.8	95.8	5.36	101.4

SURROGATE SPIKE RECOVERY FOR BTEX	% REC
4-Bromofluorobenzene	112.1

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.0

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
Rec=Percent Recovery

Signature: _____ May 1, 2007

Holland D. Gilmore / Laboratory Director

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

MES
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536

1 COMPANY NAME: (BILL TO:) CES Environmental Services Inc
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1076

2 YOUR PROJECT NO.: Enterprise | YOUR P.O. #: | YOUR PROJECT NAME: Floor Washings
PROJECT ADDRESS: Morgans Point

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	BTEX	TPH	Metals					NUMBER OF CONTAINERS	PRESERVATIONS
Floor washings	Comp.	4/24	900m		X	X	X						

5 REMARKS
TURNAROUND TIME: Standard
DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

Temp 20C

3

6 PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):
a. Dana Carter b. Dana Carter

RELINQUISHED BY: (Signature) Dana Carter — DATE 4/24 — TIME 440 — RECEIVED BY: (Signature)

7 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

PAGE 04
MES
-2814764406
05/02/2007 14:07
EPAHO10300366

Vitco Gray - Brynn 2316

2316

EPAHO103000367

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Ray Seidl**

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 # 2316

Generator: Vetco Gray-Bryan
Address: 2870 North Harvey Mitchell
Bryan, TX 77808

Waste Information

Name of Waste: RCRA empty containers
TCEQ Waste Code #: 00033082
Container Type:
Detailed Description of Process Generating Waste:
RCRA empty containers last containing oil, grease, and other products.
Color: dark **Odor:** na **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

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:	Vetco Gray - Bryan		
Address:	2870 North Harvey Mitchell		
City, State, Zip:	Bryan TX 77808		
Contact:	Ray Seidl	**Title:**	Manager
Phone No:	979-778-5537	**Fax No:**	
24/hr Phone:			
U.S. EPA I.D. No:	TXR000048652		
State I.D.	85733	**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: RCRA Empty containers
Detailed Description of Process Generating Waste: RCRA Empty containers last containing oil, grease, and other products.

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

Color: dark **Odor:** none

Specific Gravity (water=1): NA **Density:** 10 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): 10 **Other:**
Texas State Waste Code No: 00033082 (Recycled)
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** NA	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 100%
Oil&Grease <1500mg/l	**TOC** >1000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000369

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
RCRA Empty 55 gal drums	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 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:** 9-4-07

Printed Name/Title: Dustin L. Campbell / EHS Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: [signature] Date: 9-6-07 Approved Rejected Approval Number: 2316	$10.00/drum REC

EPAHO103000370

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

EPAHO103000371

(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.

EPAHO103000372

Enterprise Products MT. Belvieu 2317
2317

Ryan Thomas

From: Laszcz, Edward [ECLASZCZ@epco.com]
Sent: Tuesday, July 22, 2008 9:03 AM
To: Ryan Thomas
Cc: Wheaton, Rachel K.
Subject: RE: Manifest Corrections

Ryan;

The key is that the end source for these streams were not approved by EPCO. As to the letter, the notification was required to be submitted by CES for recycling a hazardous waste, no letter was required for that activity from EPCO.

For these manifest only, go ahead and add the changes. But formal approval will be required for any future shipments.

Ed

From: Ryan Thomas [mailto:rthomas@cesenvironmental.com]
Sent: Tuesday, July 22, 2008 8:57 AM
To: Laszcz, Edward
Cc: Matt Bowman; Flipse, Gene; Wilson, Sid
Subject: RE: Manifest Corrections

Ed,
I don't understand why you would take this position since we both CES and Enterprise submitted letters to the state concerning the handling of this material as a recycled hazardous waste (reference last night email) and have been doing so since December 2007. Please help us get these manifest corrections made.

Thanks.

From: Laszcz, Edward [mailto:ECLASZCZ@epco.com]
Sent: Tuesday, July 22, 2008 8:04 AM
To: Ryan Thomas
Subject: RE: Manifest Corrections

Ryan;

I don't believe we agreed that these were approved for recycle, were they?

Ed

From: Ryan Thomas [mailto:rthomas@cesenvironmental.com]
Sent: Tuesday, July 22, 2008 7:16 AM
To: Wheaton, Rachel K.; Laszcz, Edward
Cc: Matt Bowman
Subject: Manifest Corrrections

The attached manifests (000031202WAS, 000031203WAS and 000031204WAS) need the following corrections:

1. The U.S. DOT Description needs to read as follows:
    a. RQ, Waste Sodium Hydroxide Solution, 8, UN1824, PG II [SPENT CAUSTIC FOR RECYCLE]

2. Waste Profile # 2317

Please respond via email stating it is okay for CES Environmental to make these changes to the manifests referenced above.

Thanks, Ryan

EPAHO103000375

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Mike Tomerlin**

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 # 2317

Generator: Enterprise Products Operating, L.P.
Address: 10207 FM 1942, Attn: Rachel Wheaton
Mont Belvieu, TX 77580

Waste Information

Name of Waste: MTBE caustic
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
1st process(Merox process): Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (converting mercaptan sulfurs to disulfide sulfur
Color: dark **Odor:** sulfide **pH:** 12-14
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
standard PPE (caustic suits)

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: Material Producer Information

Company:	Enterprise Products		
Address:	10207 FM 1942 / P.O. Box 573		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:	Mike Tomerlin	**Title:**	Environmental Manager
Phone No:	281-385-4200	**Fax No:**	
24/hr Phone:	281-385-4200 / 281-385-4690		
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:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Material / Product

Name of Material / Product: MTBE Causitc

Detailed Description of Process Generating or Producing the Material / Product: 1st Process (Merox Process; Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (converting mercaptan sulfurs to disulfide sulfurs). [A merox process is used to convert mercaptan sulfurs to disulfide sulfurs. Additionally, spent MEA from a co2 removal process is mixed into the spent caustic.]
2ND Process (Isomerization process): Spent potassium hydroxide used in a process to isomerize propane to propylene.

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

Color: Dark **Odor:** Sulfidic

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:			5000	

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 4 **Other:**

Proper U.S. DOT Shipping Name: Product Sodium hydroxide solutions,

Class: 8 **UN/NA:** UN1824 **PG:** II **RQ:** 1000

EPAHO103000377

Flash Point	pH	N/A	N/A	Solids
>160	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 %
Sodium Hydroxide	5-10	%
Water	90-95	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Standard PPE (caustic suits)

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):
None Known 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 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:** 9/1/07

Printed Name/Title: N/A per Matt Bowman (product)

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: Barbara Thompson

Date: 9-6-07 Approved Rejected

Approval Number: 2317

Process Facility Information: QC= if solids less than .75% & caustic > 5% then ship to Kinnex If solids L. 75% & caustic < 5% then put in RO tank and perform RO. If high solids then filter before putting in RO tank. REC - Product

EPAHO103000378

Enterprise Products MT. Belvieu 2318
2318

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

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 # 2318

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

Waste Information

Name of Waste: Splitter 3 caustic
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
1st process (Merox process: sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (conveerting mercaptan sulfurs to disulfide sulf
Color: dark **Odor:** sulfidic **pH:** 12-14
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
Standard PPE (caustic suits)

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: Material Producer Information

Company:	Enterprise Products-Splitter III (3)		
Address:	316 S. Main / P.O. Box 573		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:	Mike Tomerlin	**Title:**	Environmental Manager
Phone No:	281-385-4200	**Fax No:**	
24/hr Phone:	281-385-4200 / 281-385-4690		
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:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Material / Product

Name of Material / Product: Splitter 3 Causitc

Detailed Description of Process Generating or Producing the Material / Product: 1st Process (Merox Process; Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process (converting mercaptan sulfurs to disulfide sulfurs). [A merox process is used to convert mercaptan sulfurs to disulfide sulfurs. Additionally, spent MEA from a co2 removal process is mixed into the spent caustic.]
2ND Process (Isomerization process): Spent potassium hydroxide used in a process to isomerize propane to propylene.

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

Color: Dark **Odor:** Sulfidic

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:			5000	

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 4 **Other:**

Product

Proper U.S. DOT Shipping Name: Sodium hydroxide solutions,

Class: 8 **UN/NA:** UN1824 **PG:** II **RQ:** 1000

EPAHO103000381

Flash Point	pH	N/A	N/A	Solids
>160	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 %
Sodium Hydroxide	5-10	%
Water	90-95	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Standard PPE (caustic suits)

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):
None Known 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 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:** 9/1/07

Printed Name/Title: N/A per Matt Bowman (product)

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: [signature] Date: 9-6-07 Approved Rejected Approval Number: 2318	**Process Facility Information:** QC= if solids less than .75% & caustic >5% then ship to Kmtex. If solids <.75% & caustic <5% then put in RO tank and perform RO. If high solids then filter before putting in RO tank. REC - Product

SCHOONER PETROLEUM SERVICES 2319 2319

EPAHO10300383

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Kevin White**

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 # 2319

Generator: Schooner Petroleum Services
Address: 9837 Windmill Park Lane
Houston, TX 77064

Waste Information

Name of Waste: Oil, dirt, grease, debris
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Yard clean up
Color: black **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Standard 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

SECTION 1: Generator Information Schooner Petroleum Services

Company:	Schooner Petroleum Svc.		
Address:	9837 Windmill Park Ln.		
City, State, Zip:	Houston Tx. 77064		
Contact:	Jeff O'Brien	**Title:**	Prod. Mgr.
Phone No:	281-864-3377	**Fax No:**	
24/hr Phone:	281-894-1770		
U.S. EPA I.D. No:	N/A		
State I.D.	CESQG	**SIC Code:**	544630-0

SECTION 2: Billing Information – ☐ Same as Above

Company:	Select Environmental		
Address:	223 McCarty Dr.		
City, State, Zip:	Houston Tx. 77029		
Contact:	Ken Wilhite	**Title:**	Sales
Phone No:	713-675-7576	**Fax No:**	713-253-1761

SECTION 3: General Description of the Waste

Name of Waste: Oil, dirt, grease, debris
Detailed Description of Process Generating Waste: Yard clean-up

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

Color: Black **Odor:** Hydrocarbon

Specific Gravity (water=1): N/A **Density:** NA 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): 20 **Other:**
Texas State Waste Code No: N/A – RECYCLE
Proper U.S. DOT Shipping Name: Non RCRA, Non regulated material
Class: 1 **UN/NA:** **PG:** **RQ:**

Flash Point – na	**pH** – na	**Reactive Sulfides** 0 mg/l	**Reactive Cyanides** 0 mg/l	**Solids** 50 %
Oil&Grease 26 mg/l	**TOC** 776 mg/l	**Zinc** 2 mg/l	**Copper** 0 mg/l	**Nickel** 0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
oil	10	%
grease	20	%
dirt	50	%
debris (hose)	20	%

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):

— oxidizes

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: ✓ ~~below reg. limits~~
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:** Jeffery W. O'Brien **Date:** 8-24-07

Printed Name/Title: JEFFERY W. O'BRIEN
MFG & FACILITY Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	~~Add to~~ Class 1 Box
Date: 9-6-07 Approved Rejected	*Charge $70/hr + FSC + $40/drum disposal
Approval Number: 2319	RECYCLE

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.

EPAHO103000388

SEATEX <2320>

EPAHO10300389

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Martha Jaramillo**

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 # 2320

Generator: Seatex
Address: 6325 Hurst Street
Houston, TX 77008

Waste Information

Name of Waste: Off spec product
TCEQ Waste Code #: CESQ2191
Container Type:
Detailed Description of Process Generating Waste:
Off spec, unused product
Color: varies **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard 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.

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:	Seatex		
Address:	6325 Hurst Street		
City, State, Zip:	Houston, TX 77008		
Contact:	O Ruber	**Title:**	
Phone No:	713-554-5112	**Fax No:**	713-863-9240
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:	Ecofluids		
Address:	601 Jefferson STreet Suite 3770		
City, State, Zip:	Houston, TX 77002		
Contact:	Martha Jaramillo	**Title:**	
Phone No:	713-654-7888	**Fax No:**	713-654-7880

SECTION 3: General Description of the Waste

Name of Waste: Off spec product
Detailed Description of Process Generating Waste: off spec/unused product

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

Color: varies **Odor:** none

Specific Gravity (water=1): 1.3 **Density:** 10.8 lbs/gal

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

Container Type:	☐	**Drum**	☒	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		____		275 gal	____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 20 **Other:** one time
Texas State Waste Code No: CESQ2191
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
>275	neutral	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	>1000mg/l	0mg/l	0mg/l	0mg/l

EPAHO103000391

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Econite	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.
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: 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: Martha C Jaramillo **Date:** 9/06/07

Printed Name/Title: Executive Assistant

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Barbara C Thompson Date: 9-7-07 Approved Rejected Approval Number: 2320	$250/tote dump in Class II Sludge box OL

EPAHO103000392

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

EPAHO103000393

(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.

EPAHO103000394

ecofluids

MATERIAL SAFETY DATA SHEET

IDENTITY: ***ECONITE***

SECTION I- Chemical Product & Company Identification

Manufacturer: ***ecofluids*** 601 Jefferson St. Suite 3770, Houston, Texas 77002
Tel: 713-654-7888 **Fax:** 713-654-7880
Emergency – CHEMTREC 800-424-9300 outside the United States: 703-527-3887

SECTION II – Physical Data

Specific gravity (H2O=1): 1.3g/CC
Solubility in water (H2O): ..... Partial

SECTION III - Fire and Explosion Data

Flashpoint (C.C.): ..... > 275°F
Flammable Limits (% in Air): ..... **Lower:** N/A **Upper**: N/A
Auto ignition: ..... Not applicable

SECTION IV – Health and Hazard Data

Threshold Limit Value: ..... Not established
Effects Overexposure: ..... May irritate skin, may cause eye irritation if product gets in the eyes.

SECTION V-Emergency First Aid Procedures

Eye Contact: ..... Immediately flush eyes with plenty of water for at least 15 minutes, if irritation persist, consult a physician.
Skin contact: ..... Wash with mild soap and water.
Inhalation: ..... *Move subject to fresh air*

SECTION VI– Reactivity Data

Chemical Stability: ..... Stable under normal operation conditions.
Hazardous polymerization: ..... Will not occur

SECTION VII - Spill or leak procedures

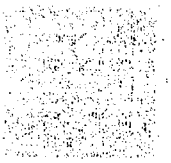
Waste disposal method: ..... Waste disposal in accordance with local, state and federal regulations

SECTION VIII– Special Protection Data

Ventilation: ..... Normal room ventilation
Respiratory Protection: ..... Non required for normal operation
Protective Gloves: ..... Solvent resistant rubber gloves should be worn
Eye Protection: ..... Splash goggles (ANSI 287.1, 1968) should be worn

This information is based on data believed by Ecofluids, Inc. to be accurate, but no warranty, express or implied is made.

EPAHO103000395



Issue Date 12-Nov-03
AW ANSI Z400.1-1998
Supersedes 09-Nov-00
Version 02

Material Safety Data
KELZAN® XCD

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name **KELZAN® XCD**

End Use Oil Field Drilling Fluid Compound

Chemical Name(s) xanthan gum

Chemical Family polysaccharide gum

Company **Kelco Oil Field Group, Division of CP KELCO ApS, 10920 W. Sam Houston Parkway North, Suite 800. Texas 77064 USA**
(800) 331 3677 For additional non-emergency information
(713) 895 7575 8 a.m. - 5 p.m. (Central Time) weekdays

Emergency telephone number for chemical emergency, spill leak, fire, exposure, or accident.

CHEMTREC

1-800-424-9300 Day or Night - Toll free in the continental U.S., Hawaii Puerto Rico, Canada, Alaska, or Virgin Islands
703-527-3887 For calls originating elsewhere, collect calls accepted.

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO
Xanthan gum	11138-66-2

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance And Odor white to tan powder with slight odor

O.S.H.A. Hazard Classification Non-hazardous material

OSHA Hazard Warning: Combustible dust. Ensure appropriate electrical classification and avoidance of ignition sources in dusty environments
Handle in a manner consistent with good industrial hygiene practices--avoid creating or inhaling aerosols of this or any other material

Potential Health Effects

Likely Routes Of Exposure Skin contact and inhalation

Eye Contact No more than slightly irritating based on toxicity studies. The dry powder may cause foreign body irritation in some individuals

Skin Contact No more than slightly toxic or slightly irritating based on toxicity studies. Prolonged contact with the dry powder may cause drying or chapping of the skin

Inhalation Inhalation of the dust may cause coughing and sneezing.

Ingestion Is not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to **Section 11** for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN: Immediately flush the area with plenty of water. If easy to do, remove any contact lenses. Remove contaminated clothing. Get medical attention if irritation persists. Wash clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air. If discomfort persists, contact a physician. Remove material from eyes, skin and clothing.

IF SWALLOWED: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

Flash point Not applicable

Hazardous products of combustion Carbon dioxide, carbon monoxide

Extinguishing media In case of fire, use water, dry chemical, CO_2, or alcohol foam.

Unusual fire and explosion hazards This material as normally packaged and handled can contain sufficient fines to form an explosive mixture if dispersed in a sufficient quantity of air. Surfaces that may be covered with this product will become extremely slippery upon application of water.

Fire fighting equipment Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

In case of spill, do not blow material. Use vacuum equipment designed specifically for handling combustible dusts.

NOTE - The use of water wash down is not recommended unless the spilled material is already wet. Wet material on a walking surface will be extremely slippery. Wet spills should be thoroughly flushed with water until non-slippery.

Refer to **Section 13** for disposal information and **Section 15** for reportable quantity information.

7. HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

Keep away from heat, sparks and flame. Avoid creating dust cloud in handling, transfer and clean up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing dust. Use NIOSH approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

VENTILATION Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below) The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment

AIRBORNE EXPOSURE LIMITS

OSHA has not established specific exposure limits for this material However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts

OSHA PEL	ACGIH TLV
15 mg/m3 (total dust) 8-hr TWA	not established
5 mg/m3 (respirable) 8-hr TWA	not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to tan powder
pH	approximately neutral (as a 1% solution)
Solubility in Water	soluble, forming viscous solutions, becoming a paste at concentrations greater than about 5%

NOTE: These physical data are typical values based on material tested but may vary from sample to sample Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product

10. STABILITY AND REACTIVITY

Stability	Product is stable under normal conditions of storage and handling Store in a cool dry place to maintain product performance
Materials to avoid	Strong oxidizers

Hazardous decomposition products Thermal decomposition products may include carbon dioxide and carbon monoxide

Hazardous polymerization Will not occur

11. TOXICOLOGICAL INFORMATION

The dry powder may cause foreign body irritation in some individuals Prolonged contact with the dry powder may cause drying or chapping of the skin Excessive inhalation of dust may be annoying and can mechanically impede respiration Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway

Data from laboratory studies and from the scientific literature on material(s) analogous to this product are summarized.

- Oral - rat LD50 > 5,000 mg/kg (practically nontoxic)
- Eye Irritation – rabbit (not irritating)
- Skin Irritation – rabbit (not irritating)

No skin allergy was observed in guinea pigs following repeated skin exposure.

No adverse effects were observed in long-term feeding studies with rats (up to 1,000 mg/kg/day) and dogs (up to 1,000 mg/kg/day) No adverse effects were observed in a 3-generation reproduction study with rats (up to 500 mg/kg/day)

12. ECOLOGICAL INFORMATION

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity A legend summarizing the classification scheme appears below

- 96-hr LC50, rainbow trout 490 mg/L (practically nontoxic)
- 48-hr LC50, *Daphnia magna* 980 mg/L (practically nontoxic)
- 96-hr LC50, mysid shrimp, using 2 lb /bbl. **Xanthan gum** in a standard drilling mud >500,000 ppm suspended particulate phase

Legend for Aquatic Organism Toxicity (Journal of the European Communities, Annex VII A, Section 5.2.1):

Values	Classifications
LC50 or EC50 < or = 1.0 mg/L	Very Toxic
LC50 or EC50 > 1.0 mg/L and < or = 10 mg/L	Toxic
LC50 or EC50 > 10 mg/L < or = 100 mg/L	Harmful
LC50 or EC50 > 100 mg/L	Practically Nontoxic

- BOD_5 is approx. 200mg 02/gram
- COD is approx. 1600 mg/02/gram

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, states and federal regulations. Dry or wet solid material can be landfilled in accordance with local, state, and federal regulations. Liquids may be sewered in accordance with local, state, and federal regulations if care is taken to avoid pluggage or blockage of sewer systems recognizing that these materials are intended to increase viscosity and form gels.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Chemical Inventories Status

Xanthan gum is listed on the following chemical inventories: TSCA Inventory, European Inventory of Existing Chemical Substances (EINECS), Canadian Domestic Substances List (DSL), Australian Inventory of Chemical Substances (AICS), Korean Existing Chemicals List (ECL), Japanese Inventory (ENCS), Philippine Inventory (PICCS), and Inventory of Existing Chemicals in China.

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable
Section 302 Extremely Hazardous Substances: Not applicable
Section 313 Toxic Chemical(s): Not applicable

CERCLA Reportable Quantity: Not applicable

Refer **to Section 11** for OSHA Hazardous Chemical(s) and **Section 13** for RCRA classification.

16. OTHER INFORMATION

MSDS produced in accordance with: ANSI Z400.1-1998

Reason for revision: New format, company address change

HMIS RATINGS:	0	1	0
NFPA RATINGS:	0	1	0

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, CP Kelco makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will CP Kelco be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

kofg.help@cpkelco.com www.kofg.com

CPKelco

ecofluids

MATERIAL SAFETY DATA SHEET

IDENTITY: ***GILSONITE*** (Naturally Occurring Hydrocarbon)

SECTION I- Chemical Product & Company Identification

Manufacturer: ***ecofluids*** 601 Jefferson St. Suite 3770, Houston, Texas 77002 Tel: 713-654-7888
Tel: 713-654-7888 **Fax:** 713-654-7880
Emergency Tel: CHEMTREC® 800-424-9300 **Outside the United States:** 703-527-3887

SECTION II – Hazardous components

Hazardous Components: ..... Not applicable; ***GILSONITE*** produces a nuisance dust in its application. The American Conference of Governmental Industrial Hygienist has established a TLV for nuisance particles of 10 mg/m^3 Total dust. OSHA permissible limit: 15 mg/m^3 total dust, 5 mg/m^3 respirable dust.

SECTION III - Physical/Chemical Characteristics Data

Solubility in water: ..... Nil
Melting point: ..... 135-205°C
Appearance: ..... Black Powder
Specific gravity: ..... 1.04 – 1.06
Softening point: ..... >205°C
Bulk density ..... 25-30 lb/ ft^3

SECTION IV-Fire and Explosion Hazard Data

Flash Point: ..... 599°C by C.O.C.
Flammable Limits: ..... Not determined
Extinguishing media: ..... Water fog, foam, CO_2, dry chemical
Unusual fire & explosion hazards: ..... in an enclosed area, treat as a flammable dust.
Special fire hazard / fighting procedures: ..... Use self-contained breathing apparatus.

SECTION V – Reactivity Data

Stability: ..... Stable
Incompatibility: ..... Strong oxidizing agents. Combustion can produce carbon monoxide

SECTION VI –Health Hazard Data

Routes of entry: ..... Inhalation of dust, ingestion
Carcinogenicity: ..... Not applicable
Health hazards: ..... Repeated inhalation over extended period of any dust including In excess of exposure limits may result in lung injury.
Signs & symptoms of exposure: ..... No effects other than nuisance dust.
Medical conditions generally aggravated by exposure: ..... Not known.
Emergency & First Aid Procedures:
Eyes: ..... Flush with water
Inhalation: ..... Remove to fresh air
Skin: ..... Wash with soap and water
Ingestion: ..... None required

SECTION VII – Precaution for Safety Handling and Use

If spilled: ..... Sweep up and dispose of in approved container. Uncontaminated Material may be reused.
Waste disposal: ..... Dispose in a sanitary landfill or incinerate with wood or paper waste in accordance with local, State and Federal Regulations.
Storage: ..... Store in a sprinkled warehouse.
Other precautions: ..... Keep dust to a minimum in closed areas. Keep form heat and open flames.

SECTION VIII – Control Measures

Respiratory: ..... Use an approved NIOSH /MSHA respirator.
Work Practices: ..... Normal industrial practices.

This information is based on data believed by Ecofluids to be accurate, but no warranty, express or implied is made.

EPAHO103000400

ecofluids

MATERIAL SAFETY DATA SHEET

IDENTITY: ***GLYCOL BOTTOMS*** **(Glycol mixture)**

SECTION I- Chemical Product & Company Identification

Manufacturer: ***ecofluids*** 601 Jefferson St. Suite 3770, Houston, Texas 77002
Tel: 713-654-7888 **Fax:** 713-654-7880

SECTION II – Composition/Information on ingredients

Components: ..... Diethylene Glycol Monobutyl Ether
Cas Number: 112-34-5; (2-3%)
NFPA codes: ..... Flammability –1; Reactivity – 0 ; Toxicity - 1

SECTION III – Physical and Chemical Characteristics.

Potential health effects:
Solubility in Water: 90%
Specific gravity: ..... 1.15 to 1.22
PH: ..... 7 to 8
Boiling point: ..... >300 °F @ 760mm HG
Vapor pressure: ..... <1mm HG
Vapor density: 6.5
Appearance: ..... Thick dark liquid
Evaporation Rate: ..... <0.001
Freezing Point: ..... 8 °F
Odor: ..... Burnt Odor

SECTION IV - Fire and Explosion Data

Flashpoint: ..... 250° F C.O.C.
Flammability Limits: ..... Not determined
Extinguishing media: ..... Water fog, alcohol foam CO_2, water dry chemical.
Special fire fighting procedures: ..... Do not direct a solid stream of water or foam into hot burning pools this may cause frothing and increase fire intensity. Use self contained breathing apparatus (SCBA) and protective clothing. Cool fire-exposed containers with water.

SECTION V – Reactivity Data

Stability: ..... Stable
Conditions to avoid: ..... None Known
Incompatibility: ..... Effective decomposition may occur if combined with strong acids Or string bases and subjected to elevated temperatures. Avoid contamination with strong oxidizing agents.
Hazardous combustion / Decombustion Products: ..... Carbon monoxide and /or carbon dioxide may be formed during combustion.

SECTION VI – Health and Hazard Data

Exposure limits: ..... None established
Carcinogenicity: ..... Not applicable
Signs & symptoms of exposure:
Inhalation: ..... Short-term harmful health effects are not expected from vapor generated at ambient temperature.
Ingestions: ..... Slightly toxic. May cause abdominal discomfort, nausea and Vomiting as well as irritation of the mouth, throat and esophagus;
Skin & Eye: ..... No adverse effects expected with exposure to skin form available information. Injury to the cornea is not expected. Excess redness or swelling of the conjunctiva may occur.
Chronic effects: ..... No adverse effects are anticipated from available information.

Medical conditions generally aggravated by exposure: ..... *Available toxicology information of the material suggests that* over exposure is unlikely to aggravate existing medical conditions.

Emergency and First Aid Procedures:

Inhalation:	Remove to fresh air.
Eye:	Flush eyes with large amount of water for at least 15 minutes while holding eyelids open. Get medical attention if discomfort persist.
Skin:	Wash skin with soap and water.
Ingestion:	If several ounces have been swallowed, and if patient is fully Conscious, give two glasses of water, induce vomiting and call a physician.

SECTION VII – Precautions for Safe Handling & Use

If Spilled:	For large spill, wear respirator and protective clothing. Remove with pump to storage. Soak up residue with water to remove trace residue. For small spills, take up with absorbent material, sweep sweep up and dispose of approved container. Uncontaminated material may be reused.
Waste disposal:	*Incinerate in accordance with Local, State and Federal* Regulations.
Storage:	Normal precautions common to good manufacturing practice.

SECTION VIII – Control Measures

Skin protection:	Face Shield, Gloves, Apron, Sleeves and Boots.
Respiratory protection:	*None expected to be needed.*
Eye protection:	Face Shield or protective Goggles.
Work practices:	Normal industrial practices

SECTION IX – Shipping Information

Shipping Name:	Glycol Residue
Hazard Class:	Non-Hazardous Liquid
UN NO:	Not applicable
Proper shipping name:	Not applicable
Hazard Label:	Not applicable
Reportable Quantity:	Not applicable

This information is based on data believed by Ecofluids, Inc. to be accurate, but no warranty, express or implied is made.

601 Jefferson St., Ste. 3770 Houston, Texas 77002 USA
Tel: 713-654-78800 Fax: 713-657-7880
E-mail: ecofluids@sprintmail.com www.ecofluids.net

ecofluids

MATERIAL SAFETY DATA SHEET

IDENTITY: ***STRATALUBE*** **(Glycol mixture)**

SECTION I- Chemical Product & Company Identification

Manufacturer: ***ecofluids*** 601 Jefferson St. Suite 3770, Houston, Texas 77002
Tel: 713-654-7888 **Fax:** 713-654-7880

SECTION II – Composition/Information on ingredients

Components: ..... Diethylene Glycol Monobutyl Ether
Cas Number: 112-34-5; (2-3%)
NFPA codes: ..... Flammability –1; Reactivity – 0 ; Toxicity - 1

SECTION III – Physical and Chemical Characteristics.

Potential health effects:
Solubility in Water: 90%
Specific gravity: ..... 1.15 to 1.22
PH: ..... 7 to 8
Boiling point: ..... >300 °F @ 760mm HG
Vapor pressure: ..... <1mm HG
Vapor density: 6.5
Appearance: ..... Thick dark liquid
Evaporation Rate: ..... *<0.001*
Freezing Point: ..... 8 °F
Odor: ..... Burnt Odor

SECTION IV - Fire and Explosion Data

Flashpoint: ..... 250° F C.O.C.
Flammability Limits: ..... Not determined
Extinguishing media: ..... Water fog, alcohol foam CO_2, water dry chemical.
Special fire fighting procedures: ..... Do not direct a solid stream of water or foam into hot burning pools this may cause frothing and increase fire intensity. Use self contained breathing apparatus (SCBA) and protective clothing. Cool fire-exposed containers with water.

SECTION V – Reactivity Data

Stability: ..... Stable
Conditions to avoid: ..... None Known
Incompatibility: ..... Effective decomposition may occur if combined with strong acids Or string bases and subjected to elevated temperatures. Avoid contamination with strong oxidizing agents.
Hazardous combustion / Decombustion Products: ..... *Carbon monoxide and /or carbon dioxide may be formed during* combustion.

SECTION VI – Health and Hazard Data

Exposure limits: ..... None established
Carcinogenicity: ..... Not applicable
Signs & symptoms of exposure:
Inhalation: ..... Short-term harmful health effects are not expected from vapor generated at ambient temperature.
Ingestions: ..... Slightly toxic. May cause abdominal discomfort, nausea and Vomiting as well as irritation of the mouth, throat and esophagus;
Skin & Eye: ..... No adverse effects expected with exposure to skin form available information. Injury to the cornea is not expected. Excess redness or swelling of the conjunctiva may occur.
Chronic effects: ..... No adverse effects are anticipated from available information.

Medical conditions generally aggravated by exposure: ..... Available toxicology information of the material suggests that over exposure is unlikely to aggravate existing medical conditions.

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ecofluids

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air.

Eye: Flush eyes with large amount of water for at least 15 minutes while holding eyelids open. Get medical attention if discomfort persist.

Skin: Wash skin with soap and water.

Ingestion: If several ounces have been swallowed, and if patient is fully Conscious, give two glasses of water, induce vomiting and call a physician.

SECTION VII – Precautions for Safe Handling & Use

If Spilled: For large spill, wear respirator and protective clothing. Remove with pump to storage. Soak up residue with water to remove trace residue. For small spills, take up with absorbent material, sweep sweep up and dispose of approved container. Uncontaminated material may be reused.

Waste disposal: Incinerate in accordance with Local, State and Federal Regulations.

Storage: Normal precautions common to good manufacturing practice.

SECTION VIII – Control Measures

Skin protection: Face Shield, Gloves, Apron, Sleeves and Boots.

Respiratory protection: None expected to be needed.

Eye protection: Face Shield or protective Goggles.

Work practices: Normal industrial practices

SECTION IX – Shipping Information

Shipping Name: Glycol Residue

Hazard Class: Non-Hazardous Liquid

UN NO: Not applicable

Proper shipping name: Not applicable

Hazard Label: Not applicable

Reportable Quantity: Not applicable

This information is based on data believed by Ecofluids, Inc. to be accurate, but no warranty, express or implied is made.

601 Jefferson St., Ste. 3770 Houston, Texas 77002 USA
Tel: 713-654-78800 Fax: 713-657-7880
E-mail: ecofluids@sprintmail.com www.ecofluids.net

WEATHERFORD INTERNATIONAL
2321

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2321

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Caustic soda beads
TCEQ Waste Code #: Product
Container Type: 50 lb bag
Detailed Description of Process Generating Waste:
Out of spec no longer used product
Color: white **Odor:** none **pH:** >12.5 1% soln
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
level C

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

AZ

SECTION 1: Generator Information

Company:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCES96-		
State I.D.	~~TBD~~ 88167	**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: Caustic Soda Beads
Detailed Description of Process Generating Waste: Out of Spec no longer used product

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

Color: white **Odor:** none

Specific Gravity (water=1): 1.3 **Density:** 15 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ 50 lb bag

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: NA-Reuse Product
Proper U.S. DOT Shipping Name: Sodium hydroxide, solid, 8, UN 1823, PG-II
Class: 8 **UN/NA:** UN 1823 **PG:** PG-II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
none	>12.5 of1% sol	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
nonemg/l	nonemg/l	0mg/l	0mg/l	0mg/l

EPAHO103000407

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Sodium Hydroxide pellets	100	%

SECTION 5: Safety Related Data

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

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):
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 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:** 8/29/07

Printed Name/Title: Michael S. JACKSON

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-7-07 Approved Rejected

Approval Number: 2321

Additional Information: 100.00/pallet
Trans p/u 200.00 + FSC
Store for reuse/chemical cleaning & or Tank wash
Product for reuse

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

EPAHO103000409

(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.

EPAHO103000410

WEATHERFORD INTERNATIONAL / Pin ~~2322~~
2322

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2322

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Hydrogen peroxide 35%
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Unused material
Color: clear **Odor:** none **pH:** 2-4
Physical State:
Incompatibilities: acids, bases, organic material
Safety Related Data/Special Handling:
level C

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:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCES QG		
State I.D.	~~TBD~~ 88167	**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: Hydrogen Peroxide 35%
Detailed Description of Process Generating Waste: Unused Material

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

Color: clear **Odor:** none

Specific Gravity (water=1): 1.13 **Density:** 9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	2 x 5 g	____	____	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 dm with 2 x 5 gal **Other:** ____
Texas State Waste Code No: NA-non waste for reuse
Proper U.S. DOT Shipping Name: Hydrogen Peroxide, aqueous solutions, 5.1, UN 2014, PG-II

Class: 5.1 **UN/NA:** UN 2014 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	2-4	0mg/l	0mg/l	0%

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

EPAHO103000413

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Hydrogen Peroxide 35%	100	%

SECTION 5: Safety Related Data

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

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):
acid, bases, organic material

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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. Jackson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbard Thangra

Date: 9-7-07 Approved Rejected

Approval Number: 2322

Additional Information: #75 co/56 al
Trans 200 co/ + FSC
use in waste water
Product for reuse

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

EPAHO103000415

(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.

EPAHO103000416

MATERIAL SAFETY DATA SHEET
Hydrogen Peroxide 35%

Possibly Not Used on T-11.

Edelweiss Enterprises, Inc.

P.O. Box 124
St. Martinville, Louisiana 70582-0124
Company Phone No. 337-394-8898

Emergency Phone No.
(800) 255-3924

IDENTIFICATION:

Product Name:	Hydrogen Peroxide 35%
Chemical Name and/or Family:	Oxidizer
C.A.S. Number:	7722-84-1
Formula:	H_2O_2
M.S.D.S. Effective Date:	July 20, 2001

COMPOSITION and INFORMATION on INGREDIENTS:

Component	C.A.S. #	%	Exposure Limits
Hydrogen Peroxide	7722-84-1	35	OSHA TWA 1 ppm

HAZARD IDENTIFICATION:

Health Hazard: Corrosive to eyes and gastrointestinal tract. May cause irreversible tissue damage to the eyes, including blindness. Severely irritating to nose, throat and lungs.

Primary Routes of Entry:

Inhalation ..... Severe Irritant
Skin ..... Corrosive
Ingestion ..... Corrosive

Over Exposure Effects: Contact of the skin with hydrogen peroxide may cause severe skin irritation. Contact of the eye may cause eye irritation with tearing or blurring of vision and possible blindness. Inhalation may cause irritation of the upper respiratory passages; nausea, headache or weakness. Ingestion may include irritation of the gastrointestinal internal tract and abdominal pain; or red blood cell destruction.

EPAHO103000417

Carcinogenicity:

NTP.....No
IARC.....Possible - Human Evidence Inadequate
OSHA.....Yes

Hazardous Materials Identification System Rating:

Health.....3
Flammability.....0
Reactivity.....2
Personal Protection .X

FIRST AID MEASURES:

First Aid Procedures:

EYE CONTACT: Flush immediately with plenty of water for at least 15 minutes and get medical attention.
SKIN CONTACT: Wash thoroughly with large amounts of soap and water.
In case of contact, immediately wash skin with soap and plenty of water.
If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
If swallowed, do not induce vomiting, get immediate medical attention.
NOTE: Drink large amounts of water to dilute corrosive agents. If vomiting occurs, continue to drink water and seek medical attention.

FIRE FIGHTING MEASURES:

Flash Point: Will Not Flash

Flammable Limits:

Lower.....NA
Upper.....NA

Extinguishing Media: Use water only to fight fire where hydrogen peroxide is involved.

Unusual Fire Hazard: Spontaneous conbustion can occur if allowed to remain in contact with oxidizable materials. Drying product on clothing or combustible material may cause fire. Do not allow temperature of storage tank to rise above 100° F. Do not heat solution to concentrations of 74% or greater. Mixtures with combustible material may be explosive.

ACCIDENTAL RELEASE MEASURES:

Spill or Leak: Dilute with a large volume of water and hold in a diked area until the Hydrogen Peroxide decomposes. Dispose of according to Federal, State, and Local regulations.

EPAHO103000418

HANDLING and STORAGE PROCEDURES:

Precautionary Handling: Keep away from heat, sparks and flame.
Use with adequate ventilation.
Provide fresh air ventilation during and after application. Close container after each use.
Use respiratory devices and other personal protective equipment required by OSHA 29 CFR 1910.
Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take emergency firstaid action shown in this Material Safety Data Sheet.
Dispose of contaminated shoes. Do not reuse.

Storage: Store in a properly vented container or in approved bulk storage facilities. Do not block vent. Store drums on flame retardant pallets. Do not store where contact with incompatible materials could occur, even with a spill. Have water source available for diluting. Keep containers out of sun and away from heat, sparks and flames. Do not add any other product to container. Never return unused product to container. Rinse empty containers thoroughly with clean water before discarding.

EXPOSURE CONTROLS and PERSONAL PROTECTION:

Ventilation:

Mechanical.....Desired in closed places
Local.....Recommended

Respiratory Protection: NIOSH approved organic vapor mask
Eye Protection: Use goggles and/or face shield if splashing is likely
Protective Gloves: Wear impervious gloves
HMIS Personal Protective Code: X: Consult your supervisor for special instructions
Threshold Limit Value: 1 ppm - based on Hydrogen Peroxide

PHYSICAL and CHEMICAL PROPERTIES:

Appearance and Odor: Clear Colorless Liquid/Odorless
Boiling Point: 226° F. (108° C.)
Freezing Point: -27° F.
Vapor Pressure (mmHg): 23 mm Hg @ 30 C
Vapor Density (Air = 1): ND
pH Value: 2.0 - 3.0
Solubility in Water: Complete
Specific Gravity (Water = 1): 1.13

STABILITY and REACTIVITY:

Chemical Stability: Unstable
Conditions to Avoid: Excessive heat, contamination of any kind. Iron of any kind, organics, and combustibles.
Incompatible Materials: Reducing agents, wood, paper and other combustibles. Iron and other heavy metals.
Decomposition Products: Oxygen which supports combustion.
Hazardous Polymerization: Will Not Occur
Polymerization Avoid: None

EPAHO103000419

DISPOSAL CONSIDERATIONS:

Waste Disposal Method: Hazardous Waste. Follow Federal and State and Local Regulations for Hazardous Waste Disposal.
EPA Hazard Waste Codes: DOO2 - Characteristic of Corrosivity
DOO1 - Characteristic of Ignitability

TRANSPORTATION INFORMATION:

Hazard Class: 5.1, 8
DOT Proper Shipping Name: Hydrogen Peroxide, Aqueous Solution, 5.1, UN 2014, PG II
Reportable Quantity: None

REGULATORY INFORMATION:

Notice The following information is presented in good faith and is believed to be accurate, as of the revised date shown above. No warranty is therefore, expressed or implied. Regulatory information requirements are subject to change as governmental regulations change.

TSCA: Toxic Substances Control Act: All chemical substances contained in this product are listed in the TSCA Inventory List. (This, however, does not imply that all products are "toxic".)

EPA: Environmental Protection Agency:

SARA: Superfund Amendments and Reauthorization Act
Title III, Section 313 (Toxic Chemicals): NA
Reportable Quantity (RQ): No
Threshold Planning Quantity (TPQ): No
Title III, Section 311 (Hazard Categories):
Acute ..... Yes
Chronic ..... Yes
Ignitable ..... Yes
Reactive ..... Yes
Sudden Release of Pressure .... No

CERCLA: The Comprehensive Environmental Response, Compensation, and Liability Act of 1980:

Reportable Quantity (RQ): ..... None

Clean Air Act:

Sections: ..... NA

Clean Water Act:

Sections: ..... NA

EPAHO103000420

MISCELLANEOUS OTHER INFORMATION:

Product Packaging: Various

Footnotes:
ND - No Data Available
NA - Not Applicable
< = Less Than
> = Greater Than

This product's safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein, is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by this company in this respect. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal regulations concerning the product. *All materials in this product are produced in compliance with Public Law 94-469 (also known as the "Toxic Substances Control Act" of 1976).*

Prepared By: TechniKos
1707 N. Main Street
St. Martinville, Louisiana 70582
(337) 394-3677

Date Revised: ..... July 20, 2001

EPAHO103000421

MV SHILA MCKAVIL 2323

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Steve Sams**

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 # 2323

Generator: MV Shila McKavid
Address: 9550 Clinton Drive
Houston, TX

Waste Information

Name of Waste: Non hazardous, non-regulated rinse water
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Rinsing of the coal cargo tanks on the MV Shil McDavid using water
Color: black-grey **Odor:** none **pH:** 6-8
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.

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:	MV SHILA McDAVID		
Address:	9550 CLINTON DRIVE (HOUSTON CEMENT TERMINAL WEST)		
City, State, Zip:	HOUSTON, TEXAS		
Contact:	STEVE SAMS	**Title:**	AUTH. BROKER FOR AGENT
Phone No:	713-530-4550	**Fax No:**	281-424-7748
24/hr Phone:	281-838-3400		
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:	PHOENIX POLLUTION CONTROL & ENVIRONMENTAL SERVICES, INC.		
Address:	720 S. LYNCHBURG ROAD		
City, State, Zip:	BAYTOWN, TEXAS 77520		
Contact:	NELSON FETGATTER	**Title:**	PRESIDENT
Phone No:	281-838-3400	**Fax No:**	281-424-748

SECTION 3: General Description of the Waste

Name of Waste: NON-HAZARDOUS/NON-REGULATED RINSE WATER
Detailed Description of Process Generating Waste: RINSING OF THE COAL CARGO TANKS ON THE MV SHILA MCDAVID USING WATER.

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

Color: BLACK - GREY Odor: NONE

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☒ Other (explain)
Container Size: ____ ____ 5,000 FRAC TANK

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): ~~10,000 - 20,000 GALLONS~~ 4 Other: ____
Texas State Waste Code No: N/A CESQ-1191
Proper U.S. DOT Shipping Name: NON-HAZARDOUS/NON-REGULATED RINSE WATER
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point NONE	**pH** 6-8	[illegible] NOmg/l	[illegible] NOmg/l	[illegible] 2%
Oil&Grease N/Amg/l	**TOC** N/Amg/l	[illegible] NOmg/l	[illegible] NOmg/l	[illegible] NOmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
WATER		98%
COAL RESIDUE		2%

SECTION 5: Safety Related Data

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

SH 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.

~~SAMPLE~~ none

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: 09/04/07

Printed Name/Title: STEVE SAMS / AUTH. BROKER FOR AGENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Layden

Date: 9-6-07 Approved Rejected

Approval Number: 2323

Additional Information: $0.10/gal + $70/hr trans + FSL if app. (up to 10K TOC, <1% solids)

IL

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.

SHELL GLOBAL <2325>

EPAHO10300428

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Juan Mendez**

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 # 2325

Generator: Shell Global
Address: 780 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: Slop oil and water from rail pit
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Oil from lube oil packaging operation
Color: dark **Odor:** hydrocarbon **pH:** 4-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard 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

fs

SECTION 1: Generator Information

Company :	Shell Global		
Address :	780 Clinton Drive 780 Clinton Drive		
City, State, Zip :	Galena Park TX 77547		
Contact :	Juan Mendez	**Title :**	Regional & Env. Engineer
Phone No :	(713) 277-3886	**Fax :**	(713) 277-3937
24 / HR Phone :	(713) 546-8505		
U.S EPA I.D No :	TXD150364289		
State I.D :	39781	**SIC Code**	N/A

SECTION 2: Billing Information

Company :	Shell Global		
Address :	780 Clinton Drive 780 Clinton Drive		
City, State, Zip :	Galena Park TX 77547		
Contact :	Juan Mendez	**Title :**	Regional & Env. Engineer
Phone No :	(713) 277-3886	**Fax :**	(713) 277-3937

SECTION 3: General Description of the Waste

Name of Waste : Slop Oil and Water From Rail Pit

Detailed Description of the Process Generating Waste:

Oil from lube oil packaging operation

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

Color : Dark **Odor :** Hydrocarbon

Specific Gravity (Water=1) : 0.98-1.00 **Density :** 8.2 lbs / gal

Layers : ☐ Single-Phas ☒ Multi-Phase

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

Container Size : ~~55~~ 5,000

Number Of Units : ~~0~~ 2-3

Texas State Waste Code No : N/A

Proper U.S. State Waste Code No : Recyclable hydrocarbon and water mixture (Non DOT regulated material)

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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-11	BRL mg/l	BRL mg/l	0-2 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>100 mg/l	BRL mg/l	BRL mg/l	BRL mg/l	BRL mg/l

EPAHO103000430

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	25-~~40~~ 50	%
Oil	25-50	%
		%
Dirt	1-2	%

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 generators knowledge

TCLP Metals : N/A
TCLP Volatilies : 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 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 : ~~Jay Baker agent for generator~~ **Date :** ~~7/18/2005~~ 9/11/07

Printed Name / Title : Juan Mendez / Juan Mendez

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Matt Bowman

Date : 9-11-07 **Status :** Approved Rejected

Approval Number : 2325

Special Pricing / Analytical Info:

If from Railpit, charge $.15/gallon plus ~~$70/hour~~ $69/hr (plus fsc.)

EPAHO103000431

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 phospha
- ☐ 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

EPAHO103000432

(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.

EPAHO103000433

SHELL GLOBAL <2326>

EPAHO10300434

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Juan Mendez**

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 # 2326

Generator: Shell Global
Address: 780 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: Slop oil and water from white tanks
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Oil from lube oil packaging operation
Color: dark **Odor:** hydrocarbon **pH:** 4-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard 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

JB

SECTION 1: Generator Information

Company :	Shell Global		
Address :	780 Clinton Drive 780 Clinton Drive		
City, State, Zip :	Galena Park TX 77547		
Contact :	Juan Mendez	**Title :**	Regional & Env. Engineer
Phone No :	(713) 277-3886	**Fax :**	(713) 277-3937
24 / HR Phone :	(713) 546-8505		
U.S EPA I.D No :	TXD150364289		
State I.D :	39781	**SIC Code**	N/A

SECTION 2: Billing Information

Company :	Shell Global		
Address :	780 Clinton Drive 780 Clinton Drive		
City, State, Zip :	Galena Park TX 77547		
Contact :	Juan Mendez	**Title :**	Regional & Env. Engineer
Phone No :	(713) 277-3886	**Fax :**	(713) 277-3937

SECTION 3: General Description of the Waste

Name of Waste : Slop Oil and Water from WHITE TANKS

Detailed Description of the Process Generating Waste:

Oil from lube oil packaging operation

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

Color : Dark **Odor :** Hydrocarbon

Specific Gravity (Water=1) : 0.98-1.00 **Density :** 8.2 lbs / gal

Layers : ☐ Single-Phas ☒ Multi-Phase

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

Container Size : 5000

Number Of Units : 2-3

Texas State Waste Code No : N/A

Proper U.S. State Waste Code No : Recyclable hydrocarbon and water mixture (Non DOT regulated material)

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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-11	BRL mg/l	BRL mg/l	0-2 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>100 mg/l	BRL mg/l	BRL mg/l	BRL mg/l	BRL mg/l

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	25-~~40~~ 50	%
Oil	25-50	%
		%
Dirt	1-2	%

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 generators knowledge

TCLP Metals : N/A
TCLP Volatilies : 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 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 : ~~Jay Baker Agent for generator~~ **Date :** ~~7/18/2005~~ 9/11/07

Printed Name / Title : Juan Mendez / Juan Mendez

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Matt Bowman Profiles Charged

Date : 9-11-07 **Status :** Approved Rejected

Approval Number : 2326

Special Pricing / Analytical Info:

Charge 0.23 ¢ per gallon Plus $169.00 per Hour, And Fuel Surcharge

EPAHO103000437

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 phospha
- ☐ 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

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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 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.

EPAHO103000439

SHELL GLOBAL <23277>

EPAHO103000440

72
8-4-09
LAB
T-34

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **8/31/2007**

Dear

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 # 2327

Producer: PPG Industries, Inc
Address: 1901 Avenue H & South 16th Street
LaPorte, TX 77572

Material / Product Information

Name of Material / Product Stream 3
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:
Solvent from production of pharmaceutical chemicals
Color: clear / colorless to yell **Odor:** hydrocarbon **pH:** 3-10
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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: Material Producer Information

Company: PPG
Address: 1901 AVENUE H + SOUTH 16th STREET
City, State, Zip: LA PORTE TX 77572
Contact: DAVE ROE Title:
Phone No: 800-424-9300 Fax No: 281-470-2985
24/hr Phone:
U.S. EPA I.D. No: TXD 000356907
State I.D. 30553 SIC Code: 2869

SECTION 2: Billing Information – ☐ Same as Above

Company: PPG Chemicals
Address: PO BOX 679738
City, State, Zip: DALLAS TX 75267-9738
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: ~~[illegible]~~ STREAM 3
Detailed Description of Process Generating or Producing the Material / Product: Solvent for production of pharmaceutical chemicals

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

Color: Clear / colorless to yellow Odor: Hydrocarbon

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 5000

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 6 Other:

Proper U.S. DOT Shipping Name: FLAMMABLE LIQUID, TOXIC NOS
Class: 6.1 UN/NA: UN1992 PG: 11 RQ: see MSDS

Flash Point	pH	N/A	N/A	Solids
<73	3+10			0 %

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 The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
AROMATIC & ALIPHATIC HYDROCARBONS	100	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

—— See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

—— MS DS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

—— See MS DS

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: NA **Date:** ——

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: Robert R Tanguay

Date: 9-11-07 Approved Rejected

Approval Number: 2327

MAY NOT BE USED FOR FUELS

Process Facility Information:

Please test for ~~water~~ % water and specific gravity. (If % H_2O is greater than 20, contact ~~Sales Person~~ Kelli)

NOTE COLOR + ANY SUSPENDED SOLIDS on inbound report.

EPAHO103000444

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mixed Aromatic and Aliphatic Hydrocarbon Process Solvents
PRODUCT ID: 0968
SYNONYMS: MAAHPS
ISSUE DATE: 03/10/2004
EDITION NO.: 3

PPG Industries, Inc.
One PPG Place, Pittsburgh, PA 15272, USA
24-hour Emergency Telephone Number: 1-304-843-1300
For Product Information (8am-5pm Eastern time):
1-800-323-2487 (Fine Chemicals)

PREPARER: Product Safety, Chemicals

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent
Ethylbenzene 100-41-4	0 - 30
Styrene 100-42-5	0 - 5
Benzyl chloride 100-44-7	0 - 2
Tributylamine 102-82-9	0 - 15
4-Methoxyphenyl acetonitrile 104-47-2	0 - 8
Toluene 108-88-3	0 - 95
Cyclohexanone 108-94-1	0 - 5
Tetrahydrofuran 109-99-9	0 - 30
Xylene 1330-20-7	0 - 95
Heptane 142-82-5	0 - 95
N-benzyloxycarbonyl-valine-N-carboxyanhydride 158257-41-1	0 - 4
Ethanol 64-17-5	0 - 5

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Venlafaxine nitrile 93413-76-4	< 2
Venlafaxine amine acetate 93413-77-5	< 2

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! Flammable. Causes severe eye irritation. This product contains a material which causes irreversible eye damage. May cause skin burns. May be harmful or fatal if absorbed through the skin. May cause allergic skin reactions. Vapor irritates eyes, nose and throat. Vapor and/or spray mist harmful if inhaled. Harmful or fatal if swallowed. Keep away from heat, sparks, flames and other sources of ignition. Avoid contact with aluminum.

Precautions: Do not get in eyes, on skin, or on clothing. Do not breathe vapors. Use appropriate personal protective clothing and respiratory protection. Use only with adequate ventilation. Ventilation must be sufficient to limit employee exposure to this product below permissible exposure limits. Do not swallow. Wash thoroughly every day after work. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke in work area.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE/SKIN CONTACT: EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT: < 73 °F (< 23 °C)

FLAMMABLE LIMITS IN AIR - LOWER (%): 1.8 % (for tetrahydrofuran) or 3.3 % (for ethanol)

FLAMMABLE LIMITS IN AIR - UPPER (%): 11.8 % (for tetrahydrofuran) or 19 % (for ethanol)

EXTINGUISHING MEDIA: Carbon Dioxide. Dry Chemicals. Foam.

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SPECIAL FIREFIGHTING PROCEDURES: Emits toxic fumes under fire conditions. Fire-fighters must wear NIOSH approved pressure demand, self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed drums with water to avoid rupture and spread of fire. Vapors are heavier than air and may travel a considerable distance to source of ignition and flash back.

This product contains tetrahydrofuran which may form explosive organic peroxides when exposed to air, light, or with aging. These peroxides may cause a violent reaction, especially upon evaporation to dryness.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Provide maximum ventilation. Remove sources of ignition. Dike area to contain spill. Wear proper protective equipment. Maintain ventilation until all vapors have been eliminated. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbents, such as sand or vermiculite, and place in covered containers for reclamation or disposal. After all visible liquid has been removed, wash area of spill with plenty of soap and water and maintain ventilation until all vapors are eliminated. If area of spill is porous, remove as much earth and gravel, etc. as necessary and place in closed containers for disposal. Dispose of waste in accordance with all local, state and federal regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:
Store in a cool, dry, well-ventilated place. Store only in closed, properly labeled containers. Keep container closed when not in use. Keep away from heat, sparks, flames, direct sunlight, and other sources of heat. Do not ship in aluminum trailers. Do not use in poorly ventilated or confined spaces without proper respiratory protection. Electrically ground all containers, pumps and piping to avoid static electrical discharge. Vapors are heavier than air and will collect in low areas.

This product contains tetrahydrofuran which may form explosive organic peroxides upon standing. Do not allow to evaporate to near dryness unless the absence of peroxides has been demostrated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:
8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: The OSHA exposure limit for benzyl chloride is 1 ppm TWA. The OSHA exposure limit(s) for cyclohexanone is 25 ppm with a skin notation. Styrene are 50 ppm and 100 ppm STEL. The OSHA exposure limit for ethyl benzene is 100 ppm TWA and 125 ppm STEL. The OSHA exposure limit for xylene is 100 ppm TWA and 150 ppm STEL. Toluene are 100 ppm TWA. 150 ppm STEL. The OSHA exposure limits for tetrahydrofuran are 200 ppm (590 mg/m3) TWA and 250 ppm (735 mg/m3)STEL The OSHA exposure limit for n-heptane is 400 ppm TWA and 500 ppm STEL. The OSHA exposure

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limit for ethanol is 1000 ppm TWA.

ACGIH: The ACGIH exposure limit for benzyl chloride is 1 ppm TWA. The ACGIH exposure limit(s) for styrene is 20 ppm and 40 ppm STEL. These limits also include a Skin notation. Cyclohexanol is 20 ppm and 50 ppm STEL. These limits also include a Skin notation. Toluene is 50 ppm TWA - skin. The ACGIH exposure limit for ethyl benzene is 100 ppm TWA and 125 ppm STEL. The ACGIH exposure limit for xylene is 100 ppm TWA and 150 ppm STEL. The ACGIH exposure limit for tetrahydrofuran is 200 ppm TWA and 250 ppm STEL. The ACGIH exposure limit for n-heptane is 400 ppm TWA and 500 ppm STEL. The ACGIH exposure limit for ethanol is 1000 ppm TWA.

RESPIRATORY PROTECTION: Where ventilation is inadequate, use a regulatory compliant full facepiece air purifying respirator with the appropriate chemical cartridges or positive- pressure, air-supplied respirator. Carefully read and follow the respirator manufacturer's instructions and information.

VENTILATION: Use local exhaust or general room/dilution ventilation sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: Chemical safety goggles.

PROTECTIVE GLOVES: Impervious gloves. Nitrile. Viton®.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	281-286 °F (138-141°C) (for xylene) 150 - 152 °F (65.5 - 66.5 °C) (for tetrahydrofuran)
VAPOUR DENSITY (Air=1):	3.7 (for xylene)
SPECIFIC GRAVITY (Water=1):	<1.0
pH:	3 to 10
FREEZING/MELTING POINT:	NA
SOLUBILITY (wt.% in water):	NA
BULK DENSITY:	NA
VOLUME % VOLATILE:	NA
VAPOR PRESSURE:	173 mm Hg @ 20 °C (for tetrahydrofuran)
EVAPORATION RATE:	8 (for tetrahydrofuran) (Butyl Acetate = 1)
HEAT OF SOLUTION:	NA
PHYSICAL STATE:	Liquid
ODOR:	Hydrocarbon
COLOR:	Clear/Colorless to Yellow

10. STABILITY AND REACTIVITY

STABILITY: See "Incompatibility (Conditions to Avoid)"

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HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):
Contact with air. Avoid halogens. Avoid contact with strong oxidizing agents and acids. Avoid concentrating solutions, could cause spontaneous ignition. Solutions attack zinc, copper, aluminum and alloys of these metals. Alkali metals, alkaline metals, aluminum, oxidizers.

This product contains tetrahydrofuran which is stable when containers with oxygen and light are excluded. Possible formation of peroxides may cause violent reaction especially upon evaporation to dryness. Unstable peroxides may form upon aging, especially in contact with air. Test for peroxides prior to distillation.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Hydrogen cyanide. Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50: 150 ppm (rat) (2 hour) High toxicity. (benzyl chloride)
ACUTE ORAL LD50: 636 mg/kg (rat) (LDLO 50 mg/kg human) (toluene) >500 mg/kg </= 2000 mg/kg = Moderate toxicity. 1231 mg/kg (rat) (benzyl chloride) Moderate toxicity.

CARCINOGENICITY STATUS: Benzyl chloride is listed as a carcinogen under IARC Group 2A (probably carcinogenic to humans), ACGIH A3 (confirmed animal carcinogen with unknown relavance to humans), and as a possible carcinogen by OSHA; but is not listed under NTP. This product contains ethylbenzene (CAS # 100-41-1) which is an IARC Group 2B carcinogen. This product contains styrene (CAS # 100-42-5) which is an IARC Group 2B carcinogen.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE:

Eye: Eye contact with liquid or vapors may cause moderate to severe irritation, tearing, increased sensitivity to light, burning, and pain. This product contains a material which may cause irreversible eye damage. Skin: Causes severe skin irritation and may cause burns. May be harmful or fatal if absorbed through the skin. Contact with skin may cause an allergic skin reaction. Inhalation: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headache, nausea, dizziness, and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Ingestion: Harmful or fatal if swallowed.

The following information is based upon toluene which is a major component.

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ACUTE:

Eye/Skin: Eye or skin contact may cause mild irritation. Prolonged skin contact may result in dermatitis (dry, red skin). Inhalation: Breathing vapors or mists from this product may cause irritation to nose and throat, dizziness, and headache. In excessive or prolonged exposures, unconsciousness and death may result. Ingestion: Swallowing this product may cause irritation of the mouth and throat. Ingestion may also cause symptoms listed above for inhalation. This material may cause aspiration, which is the inhalation of the material into lungs during ingestion or vomiting. Severe lung irritation, damage to the lung tissues and death may result.

CHRONIC:

The reported effects of the solvent constituents from long-term exposures in excess of recommended limits include nerve, heart, liver, kidney, and blood abnormalities. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. It is recommended that the potential for chronic effects be minimized through the prevention of acute effects listed above.

The following information is based upon tetrahydrofuran which is a major component.

ACUTE:

Inhalation: Tetrahydrofuran is primarily a central nervous system depressant. Principal symptoms of exposure include headache, dizziness, nausea, tingling or numbness of the extremities, sense of fullness in the head, sense of warmth, stupor or dullness, lethargy, drunkenness, and narcosis. Eye/Skin: Tetrahydrofuran is expected to be a skin and eye irritant. Ingestion: Acute oral toxicity is expected to be moderate due to the Tetrahydrofuran.

CARCINOGENICITY: NTP (National Toxicology Program) has concluded that Tetrahydrofuran show some evidence of carcinogenicity in male rate and clear evidence of carcingoencity in female mice.

This product contains styrene which has been classified by the International Agency for Research on Cancer (IARC) as a Class 2B carcinogen. This classification is based on data obtained by exposing laboratory animals to styrene oxide.

This product contains cyclohexanone. Long-term inhalation studies with laboratory animals associate cyclohexanone with kidney and liver injury, effects on white blood cells, decreased lung ventilation and oxygen consumption.

This product contains xylene. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

Ethylbenzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of

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carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to ethylbenzene.

Ethanol is slightly toxic by ingestion and inhalation. Contact may cause severe eye and skin irritation. Vapors may cause severe irritation of the nasal and respiratory tract. Allergic reactions to alcohols have been reported.

This product contains benzyl chloride which is a severe irritant to skin, eyes, and mucous membranes. It has caused pulmonary edema, cataracts, permanent eye damage and central nervous system depression. Additionly, it has been found to be a mutagen, fetotoxin, and reproductive toxin. The pungent odor and sensory irritation properties of benzyl chloride are apparent at extremely low levels.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:
The following information is for Tetrahydrofuran (CAS 109-99-9):
LC50: 2160 mg/L.(96 hr - fathead minnow) - Slight to very low toxicity.

The following data is for Toluene:
LC50: 31.7 mg/L (96-hour, flow-through, fathead minnow). Moderate toxicity.
LC50: 24 mg/L (96-hour, static, rainbow trout). Moderate toxicity.
LC50: 24 mg/L (96-hour, static, blue gill). Moderate toxicity.

The following data is for n-Heptane:
LC50: 4.0 mg/L (24-hour, goldfish). High toxicity.
LC50: 4900 mg/L (24-hour, mosquito fish). Slight to very low toxicity.
LC50: 375 mg/L (96-hour, cichlid fish). Slight to very low toxicity.

The following information is for Benzyl Chloride (CAS 100-44-7):
LC50:5.0 mg/L (96 hr; fathead minnow (static)) - High Toxicity
LC50: 240 mg/L (24 hr; mosquito fish) - Slight to very low toxicity.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:
Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

Proper Shipping Name: Flammable Liquid, Toxic, NOS
NOS Technical Name: Tetrahydrofuran , Benzyl chloride

EPAHO103000451

Hazard Class: 3 (Flammable Liquid)
Subsidiary Risk: 6.1 (Toxic)
UN Number: UN1992
Packing Group: II
USA-RQ, Hazardous Substance and Quantity: (xylene) (benzyl chloride) 100 lbs./45.4 kg. (toluene) (ethylbenzene) (tetrahydrofuran) (styrene) 1000 lbs./454 kg (cyclohexanone) 5000 lbs./2270 kg.
Marine Pollutant: None
Additional Information: USA Shipments Only - Hazardous Substances are regulated in the USA when shipped above their Reportable Quantity (RQ).

15. REGULATORY INFORMATION

USA TSCA: All components of this product are listed on the TSCA Inventory.
EUROPE EINECS: All components in this product are listed on EINECS.
CANADA DOMESTIC SUBSTANCES LIST (DSL): This product and/or all of its components are listed on the Canadian DSL.
AUSTRALIA AICS: All components of this product are listed on AICS.
KOREA ECL: All components in this product are listed on the Korean Existing Chemicals Inventory (KECI).
JAPAN MITI (ENCS): All components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) chemical inventory.
PHILIPPINES PICCS: All of the components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

SARA TITLE III:
SARA (311, 312) Hazard Class:
Acute Health Hazard. Chronic Health Hazard. Fire Hazard.
SARA (313) Chemicals:
This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirement of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
Toluene//108-88-3. Xylene//1330-20-7 ETHYL BENZENE//100-41-4 STYRENE//100-42-5 Benzyl Chloride//100-44-7
SARA Extremely Hazardous Substance:
The following materials are listed as Extremely Hazardous Substances in 40 CFR Part 355:
CAS:100-44-7//Chemical Name: Benzyl Chloride///TPQ: 500 lbs./226.8 kg.

CERCLA Hazardous Substance:
The following materials are listed as CERCLA Hazardous Substances in Table 302.4 of 40 CFR Part 302: Benzyl Chloride (100-44-7) Xylene (1330-20-7) RQ = 100 lbs./45.4 kg. Toluene (108-88-3) Tetrahydrofuran (109-99-9) Ethyl benzene (100-41-4) Styrene (100-42-5) RQ = 1000 lbs./454 kg. Cyclohexanone (108-94-1) RQ = 5000 lbs./2270 kg.

CALIFORNIA PROPOSITION 65: Warning: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

EPAHO103000452

CANADA REGULATIONS (WHMIS): Class B2 - Flammable Liquids. Class D1A - Very Toxic Materials. Class D2A - Very Toxic Materials. Class D2B - Toxic Materials. Class E - Corrosive Material.

16. OTHER INFORMATION

The following has been revised since the last issue of this MSDS:
Date. Edition. Section 14 has been updated. Section 16 has been updated.

Previous revision date: 11/21/2003
Previous edition number: 002

NA = Not Available

EPAHO103000453

TARGA MIDSTREAM SERVICE 2300

2300

EPAHO10300454

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/22/2007**

Dear **Orval W Lewis**

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 # 2300

Generator: Targa Midstream Services LP
Address: 10319 Hwy 146 North
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Spent sodium hydroxide solution (from LSNG unit)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:

Color: light to dark **Odor:** strong **pH:** 12
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
standard

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:	Targa Midstream Services LP		
Address:	10319 Hwy 146 North		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:	Orval Lewis	**Title:**	Technician
Phone No:	281-385-3215	**Fax No:**	281-385-3188
24/hr Phone:	281-732-7595		
U.S. EPA I.D. No:	TXD0980625974		
State I.D.	RRGEN	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Targa Midstream Services LP		
Address:	PO Box 10		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Spent Sodium Hydroxide Solution (from LSNG Unit)
Detailed Description of Process Generating Waste: used in the gasoline mercaptan conversion process of removing Disulfide Oil and/or mercaptans. The caustic is used to scrub H2S from the stream.

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

Color: light to dark **Odor:** strong

Specific Gravity (water=1): 1.11 **Density:** 9.3 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:			5000gal	

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:**
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution
Class: 8 **UN/NA:** UN 1824 **PG:** II **RQ:** NA

Flash Point >150	**pH** 12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <1%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 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 Solution	98-100	%

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):
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 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:** 8-22-07

Printed Name/Title: Orval Lewis

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-22-07 Approved Rejected

Approval Number: 2300

Process Facility Information: **Sample EVERY load** Create inbound load report - determine:
% Caustic, check density,
check pH (should be around 12),
make sure thereare NO solids or oil & grease $0.40/gal

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.

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#: 7060793
Client Sample ID: Production Waste
Extended ID: Targa

Sample Collect Date: 6/27/2007 @ 10:45:00 AM **Sample Type:** Comp
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

Test Group / Method

Oil & Grease (Hexane Extractable) Method: EPA 1664	MDL	Result	Units	Analyst: HDGIL Date / Time
Oil & Grease	5	**126**	**mg/L**	7/1/2007 / 2:20 PM

Sulfide Method: EPA 376.2	MDL	Result	Units	Analyst: ASB Date / Time
Sulfide	0.01	**64000**	**mg/L**	6/28/2007 / 3:10 PM

Total Recoverable Metals (RCRA) Method: SW-846 6010B	MDL	Result	Units	Analyst: HDGIL Date / Time
Sodium	290	**62500**	**mg/kg**	7/2/2007 / 3:17 PM

Alkalinity Titrimetric P M OH Method: SM 2320B	MDL	Result	Units	Analyst: ASB Date / Time
Hydroxyde Alkalinity as CaCO3	1	**39200**	**mg/L CaCO3**	6/28/2007 / 1:39 PM

Anions by Ion Chromatogram Method: EPA 300.0	MDL	Result	Units	Analyst: ASB Date / Time
Chloride	0.02	**1540**	**mg/L**	6/28/2007 / 1:22 PM

Flags: **H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit**

Holland D. Gilmore, Laboratory Director

Monday, July 02, 2007
Date

EPAHO103000460

7060793

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	RPD
Sulfide	< 0.25	64400	64900	0.77

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC
Sodium	< 0.029	97.6	97.8	0.20	< 0.029	95.0

ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	RPD
Alkalinity	< 1	248	247	0.40

ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	RPD	STD %REC
Chloride	< 0.02	1.95	1.95	0.00	94.0

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____ July 2, 2007
Holland D. Gilmore / Laboratory Director

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
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-1676-16716

2
YOUR PROJECT NO.: Targa | YOUR P.O. #: | YOUR PROJECT NAME: Production Waste
PROJECT ADDRESS:

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	**4** % Sulfides	% Sodium Hydroxide	% Chlorides	Oil+grease				NUMBER OF CONTAINERS	PRESERVATIONS	**5** REMARKS / TURNAROUND TIME
Production Waste	Comp	6/27	1045A		X	X	X	X						DETECTION LIMITS SPECIAL LIMITS REQUIRED Yes No Please circle one, if Yes, please describe below or include separate sheet detailing requirements.
														on file

6
PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter | DATE 6/27 | TIME 330p | RECEIVED BY: (Signature) Garrett Buck

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) Garrett Buck | DATE 6/27 | TIME 15:30

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**

EPAHO10300462

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **-2300**

Customer: **Targa Midstream Services LP**

Waste Generator: **Targa Midstream Services LP**

Waste Stream Name: **Spent sodium hydroxide solution (from LSNG unit)**

Expiration Date: **8/22/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

✓ No changes, please recertify.

Please send new profile as waste stream has changed.

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

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

DONALD W. LEWIS
Customer Name

Signature

TECHNICIAN
Company / Title

7/7/09
Date

TARGA MIDSTREAM 2301

2301

EPAHO103000464

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/22/2007**

Dear **Orval W Lewis**

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 # 2301

Generator: Targa Midstream Services LP
Address: 10319 Hwy 146 North
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Spent sodium hydroxide solution (from CBF unit)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
A UOP Merox treating system for treating light mercaptans in the raw liquefied petroleum gas stream
Color: dark **Odor:** strong **pH:** 12
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
standard

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:	Targa Midstream Services LP		
Address:	10319 Hwy 146 North		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:	Orval Lewis	**Title:**	Technician
Phone No:	281-385-3215	**Fax No:**	281-385-3188
24/hr Phone:	281-732-7595		
U.S. EPA I.D. No:	TXD0980625974		
State I.D.	RRGEN	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Targa Midstream Services LP		
Address:	PO Box 10		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Spent Sodium Hydroxide Solution (from CBF Unit)
Detailed Description of Process Generating Waste: a UOP Merox Treating system for treating light mercaptans in the raw liquefied petroleum gas stream

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

Color: dark **Odor:** strong

Specific Gravity (water=1): 1.11 **Density:** 9.3 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5000gal	____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution
Class: 8 **UN/NA:** UN 1824 **PG:** II **RQ:** NA

Flash Point >150	**pH** 12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <1%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 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 Solution	98-100	%

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):
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 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:** 8/20/07

Printed Name/Title: Orval Lewis

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-22-07 Approved Rejected

Approval Number: 2301

Process Facility Information: **Sample EVERY load** Create inbound load report - determine:
% Caustic, check density,
check pH (should be around 12),
make sure thereare NO solids or oil & grease $.52/gal

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.

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#: 7060698
Client Sample ID: Caustic
Extended ID: Targa

Sample Collect Date: 6/22/2007 @ 5:20:00 PM **Sample Type:** Grab
Sample Receipt Date: 6/25/2007 @ 3:17:00 PM

Test Group / Method

Alkalinity Titrimetric P M OH Method: SM 2320B	MDL	Result	Units	Analyst: ASB Date / Time
Hydroxyde Alkalinity as CaCO3	1	**1520**	mg/L CaCO3	7/10/2007 / 9:00 AM

Total Recoverable Metals (RCRA) Method: SW-846 6010B	MDL	Result	Units	Analyst: AM Date / Time
Sodium	0.040	**13000**	mg/L	7/16/2007 / 10:59 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Tuesday, July 17, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103000470

7060698

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC
Sodium	< 0.029	97.6	97.8	0.20	< 0.029	95.0

ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	STD %REC
Alkalinity	< 1	1519	1301	106

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____

Holland D. Gilmore / Laboratory Director

July 17, 2007

PAGE 03/03

MES - CHAIN OF CUSTODY

MES
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1
COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2
YOUR PROJECT NO.: Tarco YOUR P.O. #: YOUR PROJECT NAME: Caustic
PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	% Sodium Hydroxide	NUMBER OF CONTAINERS	PRESERVATIONS
Caustic	Grab	6/12	520p		X		

5 REMARKS
TURNAROUND TIME 5d

DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

3
onice
HOC
5°C

6
PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):
a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter DATE 6/25 TIME 3:17p 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 _____
☐ 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

07/19/2007 08:56 2814764405 MES

EPAHO10300472

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **PA-2301**

Customer: **Targa Midstream Services LP**

Waste Generator: **Targa Midstream Services LP**

Waste Stream Name: **Spent sodium hydroxide solution (from CBF unit)**

Expiration Date: **8/22/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

✓ No changes, please recertify.

Please send new profile as waste stream has changed.

ORVAL W. LEWIS
Customer Name

Signature

TECHNICIAN
Company / Title

7/7/09
Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

Enterprise Products / Morgan
2302

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/27/2007**

Dear **Mike Tomerlin**

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 # 2302

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Hydrocarbons and water mixture
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water generated from purging the MTBE unit.

Color: varies **Odor:** varies **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

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:	Enterprise Products Operating, LLP (Morgans Point Complex)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen J. Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating LLP, (Morgans Point Complex)		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Hydrocarbon and Water mixture
Detailed Description of Process Generating Waste: water generated from purging the MTBE unit

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

Color: varies **Odor:** varies

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:			6000 gal	

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 6 **Other:**
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Flammable Liquids, n.o.s.
Class: 3 **UN/NA:** UN 1993 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	neutral	0mg/l	0mg/l	1%

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

EPAHO103000476

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Methanol	18-20	%
MTBE	2-4	%
Water	75-80	%

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 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:** 8/22/07

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-27-07 (Approved) Rejected

Approval Number: 2302

Process Facility Information: RECYCLE
Trans $350/load
Managment $0.05/gal up to 1% Solids
Solid Surcharge $0.02/gallon/% over 1%
Treatment: decant all hydrocarbons and manage as Ignitables
*take water to Newpark as Nonhaz Alcohol Water

EPAHO103000477

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

EPAHO103000478

(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.

EPAHO103000479

Victor Gray 2303 2303

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/23/2007**

Dear **Brian Marcantel**

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 # 2303

Generator: Vetco Gray - Kilgore
Address: 4308 State Highway 42
Kilgore, TX 75662

Waste Information

Name of Waste: Aluminum sulfate
TCEQ Waste Code #: 00221191
Container Type:
Detailed Description of Process Generating Waste:
unused aluminum sulfate from water treatment system
Color: varies **Odor:** none **pH:** 3.5
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

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.

DG

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:	Vetco Gray Inc		
Address:	4308 State Highway 42		
City, State, Zip:	Kilgore, TX 75662		
Contact:	Brian Mercantel	Title:	District Manager
Phone No:	903-984-2940	Fax No:	903-984-4090
24/hr Phone:			
U.S. EPA I.D. No:	TXR000040659		
State I.D.	86635	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: Aluminum Sulfate
Detailed Description of Process Generating Waste: Unused Aluminum sulfate from water treatment system

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

Color: varies Odor: none

Specific Gravity (water=1): 1.61 Density: 9 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): 5 Other: ____
Texas State Waste Code No: 0022191
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >150	pH 3.5	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 100%
Oil&Grease >1500mg/l	TOC 0mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

EPAHO103000482

SECTION 4: Physical and Chemical Data

[illegible]	[illegible]	[illegible]
The waste consists of the following materials	Ranges are acceptable	or %
Aluminum Sulfate	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):
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: Donnie Willmann **Date:** 8-16-07

Printed Name/Title: Donnie Willmann / Manager EHS

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:** solidify
Compliance Officer: Robbins Thayer	$70/dm
Date: 8-22-07 Approved Rejected	15
Approval Number: 2303	

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

EPAHO103000484

(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.

EPAHO103000485

Univar USA Inc.
17425 NE Union Hill Road
Redmond, WA 98052
(425) 889-3400

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

The Version Date and Number for this MSDS is : 11/08/2005 - #004

****
PRODUCT IDENTIFICATION
****

PRODUCT NAME: DRY ALUM

MSDS NUMBER: GC002001

DATE ISSUED: 06/01/2001

SUPERCEDES: 07/01/1989

ISSUED BY: 008025

This MSDS has been reviewed on 11/8/2005, and is current as of the DATE ISSUED above.

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Dry Alum
OTHER/GENERIC NAMES: Aluminum Sulfate
PRODUCT USE: Water treatment. Food additive. Various industrial uses.
MANUFACTURER: General Chemical Corporation
90 East Halsey Road
Parsippany, NJ 07054
FOR MORE INFORMATION CALL: 973-515-1840
(Monday-Friday, 9:00am-4:30pm)
IN CASE OF EMERGENCY CALL: 800-631-8050
(24 Hours/Day, 7 Days/Week)

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	WEIGHT
Aluminum sulfate (anhydrous)	10043-01-3	100

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

EPAHO103000486

OSHA Hazard Communication Standard: This product is considered hazardous under the OSHA Hazard Communication Standard.

3. HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW: White or creamy white granules or powder with no odor. Can irritate the skin and eyes. Not flammable, but may release toxic vapors if decomposed in a fire.

POTENTIAL HEALTH HAZARDS
SKIN: May cause skin irritation, especially under repeated or prolonged contact, or when moisture is present.
EYES: May irritate or burn the eyes. Similarly for the aqueous solution.
INHALATION: Dust or mist inhalation at levels above the TLV may cause irritation to the respiratory tract.
INGESTION: May irritate the gastrointestinal tract.
DELAYED EFFECTS: None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.
INGREDIENT NAME NTP STATUS IARC STATUS OSHA LIST
No ingredients listed in this section.

4. FIRST AID MEASURES
SKIN: Flush with plenty of soap water, removing contaminated clothing. If irritation develops, get medical attention.
EYES: Immediately flush with water, continuing for at least 15 minutes. If irritation persists, get medical attention.
INHALATION: Promptly remove to fresh air.
INGESTION: If conscious, immediately give large quantity of water or milk. If not already vomiting, induce vomiting by touching finger to back of throat. Get medical assistance.
ADVICE TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES
FLAMMABLE PROPERTIES
FLASH POINT: Not flammable
FLASH POINT METHOD: Not applicable
AUTOIGNITION TEMPERATURE: Not applicable
UPPER FLAME LIMIT (volume % in air): Not applicable
LOWER FLAME LIMIT (volume % in air): Not applicable
FLAME PROPAGATION RATE (solids): Not applicable
OSHA FLAMMABILITY CLASS: Not applicable

EXTINGUISHING MEDIA:
Product is not flammable. Use any extinguishing agent suitable for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:
Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES
IN CASE OF SPILL OR OTHER RELEASE: (See section 8 for recommended personal protective equipment.)
Shovel up dry chemical and place in empty container and cover. Spray residue with plenty of water. Neutralize any further residue with alkali such as soda ash, lime or limestone. Adequate ventilation is required if soda ash or limestone is used, because of the consequent release of carbon dioxide gas.

Collect liquid and/or residue and dispose of in accordance with applicable regulations.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE
NORMAL HANDLING: (See section 8 for recommended personal protective equipment.) Avoid contact with skin, eyes and clothing. Do not breathe product dusts or mists.

STORAGE RECOMMENDATIONS:
Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS:
Use local exhaust if dusty or misty conditions prevails.

PERSONAL PROTECTIVE EQUIPMENT
SKIN PROTECTION: Wear gloves and appropriate industrial work clothing including long sleeved shirts and trousers for routine product handling. Full impervious clothing is recommended if handling solutions and there is repeated or prolonged contact.
EYE PROTECTION: Wear chemical safety goggles. Do not wear contact lenses.
RESPIRATORY PROTECTION: A NIOSH approved dust or mist respirator should be worn in areas where product dusts or mists are present.
ADDITIONAL RECOMMENDATIONS: The presence of an eyewash and safety shower is recommended.

EXPOSURE GUIDELINES

INGREDIENT NAME	ACGIH TLV	OSHA PEL	OTHER LIMIT
Aluminum sulfate (as Aluminum)	2 mg/m	2 mg/mom	None

1 = Limit established by General Chemical Corporation.
2 = Workplace Environmental Exposure Level (AIHA).
3 = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:
None

9. PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE: White or creamy white granules or powder.
PHYSICAL STATE: Solid
MOLECULAR WEIGHT: approx594 for AI2(SO4)3 14H2O
CHEMICAL FORMULA: A12(SO4)3 14H2O
ODOR: Odorless
SPECIFIC GRAVITY (water = 1.0): 1.61
SOLUBILITY IN WATER (weight 50% at 0 C
pH: approx3.5 (1% solution)
BOILING POINT: Not applicable
MELTING POINT: Not applicable
VAPOR PRESSURE: Negligible
VAPOR DENSITY (air = 1.0): Not applicable
EVAPORATION RATE: Not applicable COMPARED TO: Not applicable.
VOLATILES: Not applicable
FLASH POINT: Not flammable
(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY
NORMALLY STABLE? (CONDITIONS TO AVOID):

Normally stable. Avoid temperatures above 760 C, as this will yield toxic and corrosive gases.
INCOMPATIBILITIES:
Alkalis and water reactive materials such as oleum: causes exothermic reactions.
HAZARDOUS DECOMPOSITION PRODUCTS:
At elevated temperatures, sulfur oxides may be formed. These are toxic and corrosive and are oxidizers. Sulfur trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.
HAZARDOUS POLYMERIZATION:
Will not occur

11. TOXICOLOGICAL INFORMATION
IMMEDIATE (ACUTE) EFFECTS:
Aluminum sulfate:
LD50 (oral, mouse): 6207 mg/kg
LD50 (oral, rat): 1930 mg/kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:
Data not available

OTHER DATA:
None

12. ECOLOGICAL INFORMATION
Aluminum sulfate:
14 ppm/36 hr/ fundulus/fatal/fresh water.
240 ppm/48 hr/mosquito fish/TLm/water type not specified.
TL, Mosquito fish, 235 ppm, 96 hours
LC50 Largemouth bass, 250 ppm, 96 hours

13. DISPOSAL CONSIDERATIONS
RCRA
Is the unused product a RCRA hazardous applicable waste if discarded? No If yes, the RCRA ID number is: Not

OTHER DISPOSAL CONSIDERATIONS:
If permitted by regulations, material may be dissolved in water and neutralized with alkali. Neutralized waste may have to be disposed of by an approved contractor.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION
US DOT HAZARD CLASS: 9 (only if greater than 8700 lbs. in one package)
US DOT ID NUMBER: UN3077
PROPER SHIPPING NAME: Environmentally hazardous substances, solid, n.o.s. (contains aluminum sulfate)
For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION
TOXIC SUBSTANCES CONTROL ACT (TSCA)
TSCA INVENTORY STATUS: All ingredients listed on the TSCA Inventory
OTHER TSCA ISSUES: None
SARA TITLE III/CERCLA
"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs)

exist for the following ingredients.

INGREDIENT NAME	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
Aluminum sulfate (anhydrous)	5000 (*as is 8700 lbs.)	None

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center ((800) 424-8802) and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Immediate

SARA 313 TOXIC CHEMICALS:
The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

INGREDIENT NAME	COMMENT
No ingredients listed in this section.	

STATE RIGHT-TO-KNOW
In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

INGREDIENT NAME	WEIGHT %	COMMENT
No ingredients listed in this section.		

ADDITIONAL REGULATORY INFORMATION:
None listed

WHMIS CLASSIFICATION (CANADA):
Class D213.
Classified in accordance with WHMIS Controlled Product regulations.

FOREIGN CHEMICAL CONTROL INVENTORY STATUS:
All ingredients listed on Canadian DSL.

For Additional Information:
Contact: MSDS Coordinator - Univar USA
During business hours, Pacific Time - (425) 889-3400

NOTICE
Univar USA expressly disclaims all express or implied warranties of merchantibility and fitness for a particular purpose with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar USA Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar USA makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar USA's control. Therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes, and they

assume all risks of their use, handling, and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.

END OF MSDS

EPAHO103000491

Beteo 2304 2304

EPAHO103000492

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/23/2007**

Dear **Traci 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 # 2304

Generator: BETCO
Address: 2780 N. Harvey Mitchell Parkway
Bryan, TX 77807

Waste Information

Name of Waste: Paint waste
TCEQ Waste Code #: CESQ2011
Container Type:
Detailed Description of Process Generating Waste:
Paint used to paint carbon steel (new) structures. Paint left over from painting operations
Color: red/black **Odor:** characteristic **pH:** 4-8
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.

Attn: Dan

12pgs

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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: BETCO
Address: 2780 N. Harvey Mitchell Parkway
City, State, Zip: Bryan, TX 77807
Contact: Jennifer Wright Title: General Manager
Phone No: 979-778-6176 Fax No: 979-778-9975
24/hr Phone:
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: CNA Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: A/P
Phone No: 936-483-36062 Fax No: 936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: Paint waste
Detailed Description of Process Generating Waste: Paint used to paint carbon steal (New) Structures. Paint left over from painting operations

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

Color: Red/Black Odor: Characteristic

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

Layers: ☑ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 50 Other:
Texas State Waste Code No: CESQ 2011
Proper U.S. DOT Shipping Name: Non RCRA, Non DOT Regulated Paint
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point ND	pH 4-8	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

EPAHO103000494

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
2-Butoxyethanol	0 - <1	%
Metal Oxide Silicate	0 - <1	%
Secondary Butyl Alcohol	0 - <1	%
Carbon Black	0 - <1	%
Talc	0 - <1	%
Triethylamine	0 - <1	%
Non Haz Material	97 - 99	%

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: 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:** 8/20/07

Printed Name/Title: Zee McNaughton

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: $65/dm

Date: 8-23-07 Approved Rejected IS

Approval Number: 2304

EPAHO103000495

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

EPAHO103000496

(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.

EPAHO103000497

MATERIAL SAFETY DATA SHEET 75601

CAROLINA SOLVENTS, INC.
2274 1ST. STREET, SOUTHEAST
HICKORY, NORTH CAROLINA 28601

DATE PREPARED: 01/16/2006
PHONE: (828) 322-1920
CHEMTREC: (800) 424-9300

SECTION 1 - IDENTITY M10120

PRODUCT NAME: 75601 W/B RED OXIDE PRIMER
CHEMICAL NAME: NOT APPLICABLE.
PRODUCT CLASS: WATER BASED PRIMER 15A NCAC 2D.0518 NON-REACTIVE

SECTION 2 - HAZARDOUS INGREDIENTS

% BY WT	MATERIAL DESCRIPTION	CAS REGISTRY #	ACGIH TLV	OSHA PEL	VAPOR PRES. mm Hg @ 20C
20	Non-hazardous, Non-volatile Materia	Unknown			Unknown
8 *	2-Butoxyethanol	00111-76-2	25 ppm	25 ppm	<1
9	Metal Oxide Silicate	Unknown	0.1 mg/m3	0.1 mg/m3	Unknown
5 *	Secondary Butyl Alcohol	00078-92-2	100 ppm	100 ppm	Unknown

* - Chemicals Regulated Under SARA 313

SECTION 3 -TYPICAL PHYSICAL & CHEMICAL DATA, NOT SPECIFICATIONS

VOC's (+/- 2%): 13% by Wt.; 18% by Vol.
SOLIDS (+/- 2%): 30% by Wt.; 18% by Vol.
WATER/EXPT VOC's (+/- 2%): 57% by Wt.; 64% by Vol.
HAP's: 0% by Wt.
APPEARANCE/ODOR: Liquid with a characteristic odor.

APPROX. PROD. WT.: 9.4 Lbs/Gal
BOILING RANGE (DEG. F): 212 to 340
EVAPORATION RATE (ETHER = 1): <1
VAPOR DENSITY (AIR = 1): >1
SOLUBILITY IN WATER: Moderate

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (DEGREES F): Product will not flash.

EXTINGUISHING MEDIA: Foam, alcohol-type foam, carbon dioxide, dry chemical, water

SPECIAL FIREFIGHTING PROCEDURES: Closed containers exposed to extreme heat may rupture due to pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS Water may be useful in keeping fire exposed containers cool.

75601 cont.

SECTION 5 - PHYSICAL HAZARDS

STABILITY: Stable under normal conditions.

INCOMPATIBILITY: No hazardous reactions are expected under normal industrial conditions; product properties may be altered by mixing with some materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. No known conditions to avoid.

SECTION 6 - HEALTH AND SAFETY

ACUTE HEALTH HAZARD: Eye irritation. Possible skin irritation if contact is prolonged or repeated.

CHRONIC HEALTH HAZARD No known chronic effects.

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EYES: Use safety glasses as needed to prevent direct contact. In case of direct contact, immediately flush eyes with large amounts of water and continue for at least fifteen minutes. Get medical attention if irritation persists.

SKIN: Use impermeable gloves and aprons as needed to prevent prolonged or repeated contact. In case of contact, wash skin with soap and water. Remove saturated clothing and shoes.

RESPIRATORY SYSTEM: Not normally required. If product exceeds TLV for a nuisance particulate, a NIOSH approved respirator for organic mists or dust should be used.

INGESTION: ((Seek Emergency Medical Attention!)) Do not induce vomiting.

OTHER PROTECTIVE EQUIPMENT: Eye bath (as needed, depending on use).

SECTION 7 - SPILL AND DISPOSAL PROCEDURES AND SPECIAL PRECAUTIONS

STEPS FOR MATERIAL SPILLAGE: Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbant. Prevent spilled liquid from entering sewers, storm drains, or natural waterways.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations.

HANDLING AND STORAGE PRECAUTIONS: Avoid subjecting this product to extreme temperature variations and freezing. Shocking the emulsion with large amounts of chemicals or extreme shear may cause coagulation.

OTHER PRECAUTIONS: Minimal health and safety hazards are expected from use of this product. When working with any chemical compound, prudent handling practices should be exercised and unnecessary exposure avoided.
If additional information is needed, contact Carolina Solvents, Hickory, NC.
SUGGESTED HMIS Rating: H=1, F=0, R=0

MATERIAL SAFETY DATA SHEET

275246

CAROLINA SOLVENTS, INC.
2274 1ST. STREET, SOUTHEAST
HICKORY, NORTH CAROLINA 28601

DATE PREPARED: 06/14/2000
PHONE: (828) 322-1920
CHEMTREC: (800) 424-9300

SECTION 1 - IDENTITY PAINT M1012-1

PRODUCT NAME: 2-75246 W/B BLACK PRIMER (LEGS ONLY)
CHEMICAL NAME: NOT APPLICABLE.
PRODUCT CLASS: W/B PRIMER 15A NCAC 2D.0518 NON-REACTIVE

SECTION 2 - HAZARDOUS INGREDIENTS

% BY WT	MATERIAL DESCRIPTION	CAS REGISTRY #	ACGIH TLV	OSHA PEL	VAPOR PRES. mm Hg @ 20C
17	Non-hazardous, Non-volatile Materia	Unknown			Unknown
2 *	2-(2-Butoxyethoxy)ethanol	00112-34-5	Not Estab.	Not Estab.	<1
6 *	2-Butoxyethanol	00111-76-2	25 ppm	25 ppm	<1
4 *	Carbon Black	01333-86-4	3.5 mg/m3	3.5 mg/m3	Unknown
2 *	Secondary Butyl Alcohol	00078-92-2	100 ppm	100 ppm	Unknown
18	Talc	14807-96-6	2 mg/m3	2 mg/m3	Unknown

* - Chemicals Regulated Under SARA 313

SECTION 3 -TYPICAL PHYSICAL & CHEMICAL DATA, NOT SPECIFICATIONS

VOC's (+/- 2%): 9% by Wt.; 11% by Vol.
SOLIDS (+/- 2%): 29% by Wt.; 20% by Vol.
WATER/EXPT VOC's (+/- 2%): 35% by Wt.; 40% by Vol.
HAP's: 7% by Wt.
APPEARANCE/ODOR: Liquid with a characteristic odor.

APPROX. PROD. WT.: 9.5 Lbs/Gal
BOILING RANGE (DEG. F): 212 to 447
EVAPORATION RATE (ETHER = 1): <1
VAPOR DENSITY (AIR = 1): >1
SOLUBILITY IN WATER: Moderate

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (DEGREES F): Product will not flash.

EXTINGUISHING MEDIA: Foam, alcohol-type foam, carbon dioxide, dry chemical, water

SPECIAL FIREFIGHTING PROCEDURES: Closed containers exposed to extreme heat may rupture due to pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS Water may be useful in keeping fire exposed containers cool.

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275248cont.

SECTION 5 - PHYSICAL HAZARDS

STABILITY: Stable under normal conditions.

INCOMPATIBILITY: No hazardous reactions are expected under normal industrial conditions; product properties may be altered by mixing with some materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. No known conditions to avoid.

SECTION 6 - HEALTH AND SAFETY

ACUTE HEALTH HAZARD: Eye irritation. Possible skin irritation if contact is prolonged or repeated.

CHRONIC HEALTH HAZARD No known chronic effects.

EYES: Use safety glasses as needed to prevent direct contact. In case of direct contact, immediately flush eyes with large amounts of water and continue for at least fifteen minutes. Get medical attention if irritation persists.

SKIN: Use impermeable gloves and aprons as needed to prevent prolonged or repeated contact. In case of contact, wash skin with soap and water. Remove saturated clothing and shoes.

RESPIRATORY SYSTEM: Not normally required. If product exceeds TLV for a nuisance particulate, a NIOSH approved respirator for organic mists or dust should be used.

INGESTION: Give two or three glasses of milk, fruit juice or water. Get medical advice immediately in case of any unusual symptoms.

OTHER PROTECTIVE EQUIPMENT: Eye bath (as needed, depending on use).

SECTION 7 - SPILL AND DISPOSAL PROCEDURES AND SPECIAL PRECAUTIONS

STEPS FOR MATERIAL SPILLAGE: Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbant. Prevent spilled liquid from entering sewers, storm drains, or natural waterways.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations.

HANDLING AND STORAGE PRECAUTIONS: Avoid subjecting this product to extreme temperature variations and freezing. Shocking the emulsion with large amounts of chemicals or extreme shear may cause coagulation.

OTHER PRECAUTIONS: Minimal health and safety hazards are expected from use of this product. When working with any chemical compound, prudent handling practices should be exercised and unnecessary exposure avoided.
If additional information is needed, contact Carolina Solvents, Hickory, NC.
SUGGESTED HMIS Rating: H=1, F=0, R=0

MATERIAL SAFETY DATA SHEET

275422

CAROLINA SOLVENTS, INC.
2274 1ST STREET, SOUTHEAST
HICKORY, NORTH CAROLINA 28601

DATE PREPARED: 01/26/2006
PHONE: (828) 322-1920
CHEMTREC: (800) 424-9300

SECTION 1 - IDENTITY

M10014

PRODUCT NAME: 2-75422 W/B RED OXIDE PRIMER MEXICO
CHEMICAL NAME: NOT APPLICABLE.
PRODUCT CLASS: W/B PRIMER — 15A NCAC 2D.0518 NON-REACTIVE

SECTION 2 - HAZARDOUS INGREDIENTS

% BY WT	MATERIAL DESCRIPTION	CAS REGISTRY #	ACGIH TLV	OSHA PEL	VAPOR PRES. mm Hg @ 20C
15	Non-hazardous, Non-volatile Materia	Unknown			Unknown
8 *	2-Butoxyethanol	00111-76-2	25 ppm	25 ppm	<1
<1 *	Carbon Black	01333-86-4	3.5 mg/m3	3.5 mg/m3	Unknown
1	Isobutanol	00078-83-1	50 ppm	50 ppm	10.00
10	Metal Oxide Silicate	Unknown	0.1 mg/m3	0.1 mg/m3	Unknown
2 *	Secondary Butyl Alcohol	00078-92-2	100 ppm	100 ppm	Unknown
12	Talc	14807-96-6	2 mg/m3	2 mg/m3	Unknown
1 *	Triethylamine	00121-44-8	10 ppm	10 ppm	54.00

* - Chemicals Regulated Under SARA 313

SECTION 3 -TYPICAL PHYSICAL & CHEMICAL DATA, NOT SPECIFICATIONS

VOC's (+/- 2%): 13% by Wt.; 19% by Vol.
SOLIDS (+/- 2%): 38% by Wt.; 24% by Vol.
WATER/EXPT VOC's (+/- 2%): 49% by Wt.; 57% by Vol.
HAP's: 1% by Wt.
APPEARANCE/ODOR: Liquid with a characteristic odor.

APPROX. PROD. WT.: 9.8 Lbs/Gal
BOILING RANGE (DEG. F): 194 to 340
EVAPORATION RATE (ETHER = 1): <1
VAPOR DENSITY (AIR = 1): >1
SOLUBILITY IN WATER: Moderate

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (DEGREES F): Product will not flash.

EXTINGUISHING MEDIA: Foam, alcohol-type foam, carbon dioxide, dry chemical, water

SPECIAL FIREFIGHTING PROCEDURES: Closed containers exposed to extreme heat may rupture due to pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS Water may be useful in keeping fire exposed containers cool.

275422cont.

SECTION 5 - PHYSICAL HAZARDS

STABILITY: Stable under normal conditions.

INCOMPATIBILITY: No hazardous reactions are expected under normal industrial conditions; product properties may be altered by mixing with some materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. No known conditions to avoid.

SECTION 6 - HEALTH AND SAFETY

ACUTE HEALTH HAZARD: Eye irritation. Possible skin irritation if contact is prolonged or repeated.

CHRONIC HEALTH HAZARD No known chronic effects.

EYES: Use safety glasses as needed to prevent direct contact. In case of direct contact, immediately flush eyes with large amounts of water and continue for at least fifteen minutes. Get medical attention if irritation persists.

SKIN: Use impermeable gloves and aprons as needed to prevent prolonged or repeated contact. In case of contact, wash skin with soap and water. Remove saturated clothing and shoes.

RESPIRATORY SYSTEM: Not normally required. If product exceeds TLV for a nuisance particulate, a NIOSH approved respirator for organic mists or dust should be used.

INGESTION: << Seek Emergency Medical Attention! >> Do not induce vomiting.

OTHER PROTECTIVE EQUIPMENT: Eye bath (as needed, depending on use).

SECTION 7 - SPILL AND DISPOSAL PROCEDURES AND SPECIAL PRECAUTIONS

STEPS FOR MATERIAL SPILLAGE: Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbant. Prevent spilled liquid from entering sewers, storm drains, or natural waterways.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations.

HANDLING AND STORAGE PRECAUTIONS: Avoid subjecting this product to extreme temperature variations and freezing. Shocking the emulsion with large amounts of chemicals or extreme shear may cause coagulation.

OTHER PRECAUTIONS: Minimal health and safety hazards are expected from use of this product. When working with any chemical compound, prudent handling practices should be exercised and unnecessary exposure avoided.
If additional information is needed, contact Carolina Solvents, Hickory, NC.
SUGGESTED HMIS Rating: H=1, F=0, R=0

MATERIAL SAFETY DATA SHEET

275087

CAROLINA SOLVENTS, INC.
2274 1ST. STREET, SOUTHEAST
HICKORY, NORTH CAROLINA 28601

DATE PREPARED: 01/19/1999
PHONE: (704) 322-1920
CHEMTREC: (800) 424-9300

SECTION 1 - IDENTITY

PRODUCT NAME: 2-75087 DEAD FLAT BLACK
CHEMICAL NAME: NOT APPLICABLE.
PRODUCT CLASS: W/B — 15A NCAC 2D.0518 NON-REACTIVE

SECTION 2 - HAZARDOUS INGREDIENTS

% BY WT		MATERIAL DESCRIPTION	CAS REGISTRY #	ACGIH TLV	OSHA PEL	VAPOR PRES. mm Hg @ 20C
14		Non-hazardous, Non-volatile Materia	Unknown			Unknown
6	*	2-Butoxyethanol	00111-76-2	25 ppm	25 ppm	(1
4	*	Carbon Black	01333-86-4	3.5 mg/m3	3.5 mg/m3	Unknown
1		Diethylene Glycol	00111-46-4	Not Estab.	Not Estab.	(1
1		Isobutanol	00078-83-1	50 ppm	50 ppm	10.00
2	*	Secondary Butyl Alcohol	00078-92-2	100 ppm	100 ppm	Unknown
20		Talc	14807-96-6	2 mg/m3	2 mg/m3	Unknown

* - Chemicals Regulated Under SARA 313

SECTION 3 -TYPICAL PHYSICAL & CHEMICAL DATA, NOT SPECIFICATIONS

VOC's (+/- 2%): 10% by Wt.; 14% by Vol.
SOLIDS (+/- 2%): 40% by Wt.; 28% by Vol.
WATER/EXPT VOC's (+/- 2%): 50% by Wt.; 59% by Vol.
HAP's: 6% by Wt.
APPEARANCE/ODOR: Liquid with a characteristic odor.

APPROX. PROD. WT.: 9.7 Lbs/Gal
BOILING RANGE (DEG. F): 212 to 473
EVAPORATION RATE (ETHER = 1): (1
VAPOR DENSITY (AIR = 1): >1
SOLUBILITY IN WATER: Moderate

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (DEGREES F): Product will not flash.

EXTINGUISHING MEDIA: Foam, alcohol-type foam, carbon dioxide, dry chemical, water

SPECIAL FIREFIGHTING PROCEDURES: Closed containers exposed to extreme heat may rupture due to pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS Water may be useful in keeping fire exposed containers cool.

SECTION 5 - PHYSICAL HAZARDS

STABILITY: Stable under normal conditions.

INCOMPATIBILITY: No hazardous reactions are expected under normal industrial conditions; product properties may be altered by mixing with some materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. No known conditions to avoid.

SECTION 6 - HEALTH AND SAFETY

ACUTE HEALTH HAZARD: Eye irritation. Possible skin irritation if contact is prolonged or repeated.

CHRONIC HEALTH HAZARD No known chronic effects.

EYES: Use safety glasses as needed to prevent direct contact. In case of direct contact, immediately flush eyes with large amounts of water and continue for at least fifteen minutes. Get medical attention if irritation persists.

SKIN: Use impermeable gloves and aprons as needed to prevent prolonged or repeated contact. In case of contact, wash skin with soap and water. Remove saturated clothing and shoes.

RESPIRATORY SYSTEM: Not normally required. If product exceeds TLV for a nuisance particulate, a NIOSH approved respirator for organic mists or dust should be used.

INGESTION: Give two or three glasses of milk, fruit juice or water. Get medical advice immediately in case of any unusual symptoms.

OTHER PROTECTIVE EQUIPMENT: Eye bath (as needed, depending on use).

SECTION 7 - SPILL AND DISPOSAL PROCEDURES AND SPECIAL PRECAUTIONS

STEPS FOR MATERIAL SPILLAGE: Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbant. Prevent spilled liquid from entering sewers, storm drains, or natural waterways.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations.

HANDLING AND STORAGE PRECAUTIONS: Avoid subjecting this product to extreme temperature variations and freezing. Shocking the emulsion with large amounts of chemicals or extreme shear may cause coagulation.

OTHER PRECAUTIONS: Minimal health and safety hazards are expected from use of this product. When working with any chemical compound, prudent handling practices should be exercised and unnecessary exposure avoided.
If additional information is needed, contact Carolina Solvents, Hickory, NC.
SUGGESTED HMIS Rating: H=1, F=0, R=0

Palm Center Police Station
2305

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **8/22/2007**

Dear **Bill Shafer**

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 # 2305

Producer: Palm Center Police Station
Address: 5320 Griggs Road
Houston, TX 77021

Material / Product Information

Name of Material / Product Unleaded gas
Container Type: UST

Detailed Description of Process Generating or Producing the Material / Product:
Residual removal of gas from UST

Color: brown **Odor:** gas **pH:** 7
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
proper 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

SECTION 1: Generator Information

Company:	Palm Center Police Station		
Address:	5320 Griggs Road		
City, State, Zip:	Houston, Tx		
Contact:	Bill Shafer	**Title:**	
Phone No:	281-476-0030	**Fax No:**	
24/hr Phone:	281-476-0030		
U.S. EPA I.D. No:	N/A		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Lighthouse Environmental Inc		
Address:	4218 Pasadena Blvd		
City, State, Zip:	Pasadena, Texas 77503		
Contact:	Bill Shafer	**Title:**	Compliance
Phone No:	281-476-0030	**Fax No:**	281-476-0041

SECTION 3: General Description of the Waste

Name of Waste: Unleaded Gas
Detailed Description of Process Generating Waste: Residual Removeal of gas from UST

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

Color: Brn **Odor:** Gas

Specific Gravity (water=1): 1.0 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** One Time
Texas State Waste Code No: Paint
Proper U.S. DOT Shipping Name: Flamable Liquid
Class: 3 **UN/NA:** 1993 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	7	na mg/l	na mg/l	1%

Oil&Grease	TOC	Zinc	Copper	Nickel
na mg/l	na mg/l	na mg/l	na mg/l	na mg/l

EPAHO103000508

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Unleaded Gas		100

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Proper 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 Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
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:** 8/21/07

Printed Name/Title: Division Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature] Date: 8-22-07 Approved Rejected Approval Number: 2305	Pay .20/gal Product

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.

Gulbransen Technologies Inc 2306

2306

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/28/2007**

Dear **Anthony Unruh**

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 # 2306

Generator: Gulbrandsen Technologies Inc.
Address: 9401 Strang Road
LaPorte, TX 77571

Waste Information

Name of Waste: Wastewater from cleaning kettles
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Wastewater from cleaning kettles last containing ACH solution
Color: white **Odor:** none **pH:** 4-5
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
Standard

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:	Gulbrandsen Technologies Inc		
Address:	9401 Strang Road		
City, State, Zip:	LaPorte TX 77571		
Contact:	Anthony Unruh	Title:	Plant Manger
Phone No:	281-476-4321	Fax No:	281-476-0452
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:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Waste water from cleaning kettles
Detailed Description of Process Generating Waste: Waste water from cleaning kettles last containing ACH solution

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

Color: white Odor: none

Specific Gravity (water=1): 1 Density: 8.34 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): ~~40,000 gal~~ 8 Other: one time
Texas State Waste Code No: CESQ1191
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
>160	4-5	<20mg/l	<20mg/l	0%

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

EPAHO103000514

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-95	%
ACH	5-10	%

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.
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: 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: A Unruh **Date:** 8/27/07

Printed Name/Title: Anthony Unruh

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	$420/load $0.18/gal $175/[illegible]
Date: 8-28-07 Approved Rejected	Redirect to Newpark
Approval Number: 2306	IL

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

EPAHO103000516

(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.

EPAHO103000517

Gulbrandsen Technologies

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

SUBSTANCE: **ALUMINUM CHLORHYDRATE SOLUTION, 50%**

CAS#: 12042-91-0

MANUFACTURER: Gulbrandsen Technologies, Inc.
2 Main Street
Clinton, NJ 08809

PRODUCT INFORMATION: (908) 735-5458

TRANSPORTATION
EMERGENCY (CHEMTREC): (800) 424-9300

REVISION DATE: 12/01/2002
SUPERSEDES: 07/23/2002

INGREDIENTS

INGREDIENT	CAS #	PERCENTAGE
Aluminum chlorhydrate	12042-91-0	25 - 50
Water	7732-18-5	50 - 75

PHYSICAL DATA

BOILING POINT: 110°C (230°F)
MELTING POINT: -7°C (20°F)
SPECIFIC GRAVITY: 1.15 - 1.35
% VOLATILE: 50 - 75 (water)
VAPOR DENSITY: Air=1, N/F[1]
APPEARANCE: Colorless to light yellow liquid

pH (15% w/w): 4.0 - 5.0
SOLUBILITY IN WATER: Complete
VAPOR PRESSURE: N/F[1]
EVAPORATION RATE: N/F
ODOR: None

FIRE AND EXPLOSION HAZARDS

FLASH POINT: N/A[2]
FLAMMABLE LIMITS IN AIR: UFL: N/A LFL: N/A (% BY VOLUME)
EXTINGUISHING MEDIA: Will not burn; use materials appropriate for surrounding fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Cool exposed tanks with water.
SPECIAL FIRE AND EXPLOSION HAZARDS: Possible formation of hazardous chlorine compounds.

REACTIVITY

STABILITY: Stable
DECOMPOSITION: Will not occur
POLYMERIZATION: Will not occur
INCOMPATIBILITY: N/F

HEALTH HAZARDS

CHRONIC: No
FIRE: No
REACTIVITY: No
PRESSURE: No

EXTREMELY HAZARDOUS SUBSTANCE: No
CERCLA HAZARDOUS SUBSTANCE: No
TOXIC CHEMICAL: No

NFPA/HMIS RATINGS:
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

Personal protection rating to be supplied by user depending on use conditions.

ADDITIONAL INFORMATION AND REFERENCES

Gulbrandsen Technologies, Inc. and its divisions, affiliates and subsidiaries ("Gulbrandsen") believe that the information contained in each material safety data sheet ("MSDS"), technical data sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) is accurate as of the date of publication. The MSDSs, TDSs, product information brochures, and information contained herein are referred to collectively as the "Data Sheets". It is the responsibility of the user to obtain and use the most recent version of the Data Sheets. Each Data Sheet relates only to the specific product designated therein and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information are beyond the control of Gulbrandsen, Gulbrandsen expressly disclaims any and all liability as to any consequential damages or results obtained or arising from any use of the products or the information contained in the Data Sheets. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE DATA SHEETS OR THE RELATED PRODUCTS.**

No statement made in the Data Sheets or by any employee or agent of Gulbrandsen shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No employee, agent, distributor, or sales representative is authorized to vary the terms of the above paragraph, to make any statements, representations, or warranties inconsistent with the above paragraph, or to provide any information that is at variance with the above paragraph. All materials related to the product are subject in all respects to the above paragraph and to the extent that they are inconsistent with the above paragraph, the terms of the above paragraph shall control.

[1]N/F = None found
[2]N/A = Not applicable

EPAHO103000519

Honing Inc. 2307

EPAHO103000520

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/22/2007**

Dear **Ron Kohler**

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 # 2307

Generator: Honing Inc.
Address: 1226 Taylor Street
Houston, TX 77240

Waste Information

Name of Waste: Honing sludge
TCEQ Waste Code #: 00013071
Container Type:
Detailed Description of Process Generating Waste:
Honing operation
Color: black **Odor:** hydrocarbon **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

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:	Honing Inc.		
Address:	12226 Taylor St.		
City, State, Zip:	Houston TX. 77240		
Contact:	Dana Burton	**Title:**	Off Mgr
Phone No:	713-466-0205	**Fax No:**	713-466-3193
24/hr Phone:	713-806-3813		
U.S. EPA I.D. No:	NA		
State I.D.	84053	**SIC Code:**	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	Select Environmental		
Address:	223 Mears Dr.		
City, State, Zip:	Houston TX. 77025		
Contact:	Jean White	**Title:**	Sales
Phone No:	281-960-3967	**Fax No:**	713-255-1761

SECTION 3: General Description of the Waste

Name of Waste: Honing Sludge
Detailed Description of Process Generating Waste: Honing Operation

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

Color: Black **Odor:** Hydrocarbon

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gl. ____ ____ ____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 40 **Other:** ____
Texas State Waste Code No: 0001-307-1
Proper U.S. DOT Shipping Name: Non-RCRA, non-DOT regulated material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point NA	**pH** neutral	**Reactive Sulfides** NA mg/l	**Reactive Cyanides** NA mg/l	**Solids** 85 %
Oil&Grease 7150 mg/l	**TOC** 7150 mg/l	**Zinc** NA mg/l	**Copper** NA mg/l	**Nickel** NA mg/l

Aug 17 2007 2:20PM Honing, Inc. 713 466 3193 p.1

EPAHO103000522

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Honing Sludge		85
Oil		10
water		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.

X 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: —

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: Diana Burton **Date:** 8/17/07

Printed Name/Title: Diana Burton, Off. Mgr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Thompson **Additional Information:** $85/drum IS

Date: 8-22-07 **Approved** **Rejected** Redirect to disposal

Approval Number: 2307 Class 1 Sludge

Aug 17 2007 2:20PM Honing, Inc. 713 466 3193 p.2

EPAHO103000523

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

EPAHO103000524

(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.

EPAHO103000525

A & B Environmental Services, Inc.

10100 East Freeway, Suite 100
Houston, TX 77029
(713) 453-6060

Invoice

DATE	INVOICE #
3/30/2007	98707

BILL TO
City Waste Attn: Diana Burton P.O. Box 40893 Houston, TX 77240-0893

CUSTOMER PROJECT AND NO.
Project: Rilco 11435 Brittmore Park Houston Sample: 03/20/07 Richard Morrison

P.O. NUMBER	TERMS	DUE DATE	DATE REC.	ACCT. NO.	BATCH NO.
	Due on receipt	3/30/2007	3/21/2007		88741.01

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
1	TCLP-M...	TCLP Metals - Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver, & Mercury	120.00	120.00

sent 4/13/07

Thank you for your business.

Total $120.00

Laboratory Analysis Report

Job ID : 88741

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project ID :

Rilco 11435 Brittmoore Park Houston, Tx 77041

Report To :

Client Name:	City Waste	P.O.#. :	
Attn:	Rich Morrison	Date Received :	03/21/2007
Client Address:	2202 Kelley	Sample Collected By :	Rich Morrison
City, State, Zip:	Houston, Texas, 77026		

This Laboratory is NELAP (#87425) accredited.

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Total number of pages in report:

8

Jennifer Bishop

Released By: Jennifer Bishop

Title: Project Manager

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 88741

Date: 3/30/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

EPAHO103000528

CROSS-REFERENCE FIELD SAMPLE AND LABORATORY IDENTIFICATIONS

A&B Job ID : 88741

3/30/2007

Client Project :

Rilco 11435 Brittmoore Park Houston, Tx 77041

Field Identification	Laboratory Identification	7470 A	6010 C	
Sand Blast #1	88741.01	X	X	

EPAHO103000529

LABORATORY TEST RESULTS

Job ID : 88741

Date 3/30/2007

Client Name: City Waste

Attn: Rich Morrison

Project ID: Rilco 11435 Brittmoore Park Houston, Tx 77041

Client Sample ID: Sand Blast #1
Date Collected: 03/20/07
Time Collected: 14:00
Other Information:

Job Sample ID: 88741.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		03/23/07 13:57	SC
	Barium	0.6566	mg/L	1	0.1	100.0		03/23/07 13:57	SC
	Cadmium	BRL	mg/L	1	0.1	1.0		03/23/07 13:57	SC
	Chromium	BRL	mg/L	1	0.1	5.0		03/23/07 13:57	SC
	Lead	BRL	mg/L	1	0.1	5.0		03/23/07 13:57	SC
	Selenium	BRL	mg/L	1	0.500	1.0		03/23/07 13:57	SC
	Silver	BRL	mg/L	1	0.1	5.0		03/23/07 13:57	SC
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		03/23/07 14:25	RB

EPAHO103000530

QUALITY CONTROL CERTIFICATE

Job ID : 88741 **Date :** 3/30/2007

Analysis : TCLP Metals **Method :** SW-846 6010C **Visual Matrix :** mg/L

QC Batch ID : Qb07032330 **Created Date :** 03/23/07 **Created By :** Scuello

Samples in This QC Batch : 88741.01

Digestion :	PB07032308	**Prep Method :** SW-846 3010A		**Prep Date :** 03/23/07		**Prep By :**	Rbairamadgi
TCLP Prep :	PB07032212	**Prep Method :** SW-846 1311		**Prep Date :** 03/22/07		**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.1	
Barium	7440-39-3	BRL	mg/L	1	0.1	
Cadmium	7440-43-9	BRL	mg/L	1	0.1	
Chromium	7440-47-3	BRL	mg/L	1	0.1	
Lead	7439-92-1	BRL	mg/L	1	0.1	
Selenium	7782-49-2	BRL	mg/L	1	0.5	
Silver	7440-22-4	BRL	mg/L	1	0.1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	1	0.99	99	1	1.01	101	2.00	20	80-120	
Barium	1	0.95	95	1	0.93	93	2.12	20	80-120	
Cadmium	1	0.99	99	1	0.97	97	2.04	20	80-120	
Chromium	1	0.99	99	1	0.97	97	2.04	20	80-120	
Lead	1	0.94	94	1	0.96	96	2.11	20	80-120	
Selenium	1	1.02	102	1	1.03	103	0.97	20	80-120	
Silver	1	1.04	104	1	1.01	101	2.92	20	80-120	

QC Type: MS and MSD
QC Sample ID: 88728.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.01	101	2	1.94	97	3.54	30	45-138	
Barium	0.2409	2	2.01	88.5	2	1.99	87.5	1	25	39-135	
Cadmium	BRL	2	1.90	95	2	1.87	93.5	1.59	25	56-125	
Chromium	BRL	2	1.94	97	2	1.91	95.5	1.55	25	52-125	
Lead	BRL	2	1.89	94.5	2	1.83	91.5	3.22	25	55-125	
Selenium	BRL	2	2.10	105	2	2.02	101	3.88	25	18-137	
Silver	BRL	2	2.02	101	2	2.02	101	0	25	26-148	

Refer to the Definition page for terms.

EPAHO103000531

QUALITY CONTROL CERTIFICATE

Job ID : 88741 **Date :** 3/30/2007

Analysis : TCLP Metals, Mercury **Method :** SW-846 7470A **Visual Matrix :** mg/L

QC Batch ID : Qb07032338 **Created Date :** 03/23/07 **Created By :** Rbairamadgi

Samples in This QC Batch : 88741.01

Digestion :	PB07032302	**Prep Method :**	SW-846 7470A	**Prep Date :**	03/23/07	**Prep By :**	Rbairamadgi
TCLP Prep :	PB07032212	**Prep Method :**	SW-846 1311	**Prep Date :**	03/22/07	**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.002		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0053	106						71-143	

QC Type: MS and MSD
QC Sample ID: 88728.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0052	104	0.005	0.0052	104	0	35	61-175	

Refer to the Definition page for terms.

EPAHO103000532

A & B Labs

Chain of Custody

Page _____ of _____

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID 88741

5. Project #

1. REPORT TO:
Company: CITY WASTE
Address: 2202 KELLEY
HOUSTON, TX 77026
Contact: RICH MORRISON
Phone: 832-358-9797
Fax: ☐ 832-358-9777
E-mail: ☐ RICHMORRISON@CITY-WASTE.com

2. INVOICE TO:
Company: CITY WASTE
Address: 2202 KELLEY
HOUSTON, TX 77026
Contact: RICH MORRISON
Phone: 832-358-9797
Fax: ☐ 832-358-9777
E-mail: ☐ RICHMORRISON@CITY-WASTE.com

3. PO#

4. Turnaround Time (Business Days)
☐ Same Day* ☐ Need by
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 7 Days
* Surcharge applies

6. Project Name / Location
RILCO 11435 BRITTMOORE PARK HOUSTON, TX 77041

7. Special Instructions (PLEASE PRINT)
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached

8. Sampler's Name & Company (PLEASE PRINT)
RICH MORRISON - CITY WASTE

Sampler's Signature & Date
3/21/07

13. No. of Containers
14. Containers*
15. Preservatives**
16. Analyses/Methods: TCLP RCRA METALS (8)

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	10. Sampling Time	11. Comp.	11. Grab	12. Matrix Water	Soil	Sludge	Oil	Air	Other	17. REMARKS
.01	1	SAND BLAST #1	3/20/07	2:00PM		✓							
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

	18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1	RICH MORRISON	3/21/07	11:00AM	Rocio Sanz	3/21/07	11:00
2						
3						

20. KNOWN HAZARDS / COMMENTS

*Containers: VOA - 40 ml vial; 4 oz/8 oz - glass wide mouth; A/G - Amber/Glass 1 Liter; 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

BILL OF LADING / TRACKING #

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

EPAHO103000533

Sample Condition Checklist

Date : **3/21/2007**

A&B JobID : **88741**	Date Received : **03/21/2007**	Time Received : **11:00 AM**
Client Name : **City Waste**		
Temperature : **20°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.	**Sample were received in appropriate container(s).**	X	
10.	**All samples were logged 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 completely filled.**	N/A	
16.	**Sample accepted.**	X	

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Rgamez

Check in by/date : Rgamez / 3/21/2007

Enterprise Products 8308
Texas City

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Marty Goodpasture/Joe Hawkins**

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 # 2308

Generator: Enterprise Products Operating (Substation-Texas City)
Address: 700 14th Street South
Texas City, TX 77590

Waste Information

Name of Waste: Hydroexcavation water
TCEQ Waste Code #: 00041192
Container Type:
Detailed Description of Process Generating Waste:
Jet rodding holes
Color: brown **Odor:** none **pH:** neutral
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

612

SECTION 1: Generator Information

Company:	Enterprise Products Operating (Texas City Terminal)		
Address:	700 14th Street South		
City, State, Zip:	Texas City, TX 77590		
Contact:	Joe Hawkins	**Title:**	Manager
Phone No:	409-945-6622	**Fax No:**	
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD000838698		
State I.D.	36472	**SIC Code:**	5171

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating		
Address:	11750 Almeda		
City, State, Zip:	Houston, TX 77045		
Contact:	Marty Goodpasture	**Title:**	Manager
Phone No:	832-347-4527	**Fax No:**	713-803-2250

SECTION 3: General Description of the Waste

Name of Waste: Hydroexcavation Water
Detailed Description of Process Generating Waste: Jet rodding holes

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

Color: brown **Odor:** none

Specific Gravity (water=1): 1.1 **Density:** 8.5 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): 20 **Other:** ____

Texas State Waste Code No: 0004 1192

Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material

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

Flash Point ≥140	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 2-10%
Oil&Grease <1500mg/l	**TOC** <1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000537

SECTION 4: Physical and Chemical Data

COMPONENTS LABEL The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	90-98	%
Suspended Clay/dirt	2-10	%

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.
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: (Benzene)
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 L Hoefner **Date:** 8/31/07

Printed Name/Title: Wesley Hoefner / Field Env. Engr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Mangan

Date: 9-4-07 Approved Rejected

Approval Number: 2308

Additional Information: 15¢ Gallon - water flush.
25¢ Gallon - Filter press soil
Non-Filtered Sludge - 35⁰⁰/yd
Trans 70⁰⁰/HR
~~Frac~~ Vacuum Truck to pump From Top of Frac tank

TL

EPAHO103000538

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

EPAHO103000539

(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.

EPAHO103000540

Mercury Environmental Services, Inc. F04024

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: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 7080705
Client Sample ID: Purge Water
Extended ID: Enterprise TX City

Sample Collect Date: 8/24/2007 @ 2:30:00 PM **Sample Type:** Grab
Sample Receipt Date: 8/24/2007 @ 3:30:00 PM

Test Group / Method

TCLP Benzene Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Benzene	0.005	0.5	**0.336**	mg/L	8/26/2007 / 9:25 AM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	5	< 5	mg/L	8/25/2007 / 8:41 PM
>C12 - C28 Hydrocarbons	5	**46**	mg/L	8/25/2007 / 8:41 PM
>C28 - C36 Hydrocarbons	5	< 5	mg/L	8/25/2007 / 8:41 PM
Total TPH	15	**46**	mg/L	8/25/2007 / 8:41 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director ***Tuesday, August 28, 2007*** **Date**

EPAHO103000541

7080705

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	96.7
Toluene-d8	86.3
4-Bromofluorobenzene	99.4

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	98.2	100.7	95.3
C12-C28		< 8	113.2	127.4	120.3

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

August 28, 2007

MES - CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental
COMPANY ADDRESS:
CITY _____ STATE _____ ZIP _____
CONTACT PERSON'S NAME: Gary Brauchman
CONTACT PERSON'S PHONE: 713-417-5737 FAX #:

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Enterprise TXcity	GR Enterprise TXcity	Enterprise TXcity

PROJECT ADDRESS:

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Benzene	TPH						NUMBER OF CONTAINERS	PRESERVATIONS
Purge water	G	8-24-07	2:30	C								1	None

4 PARAMETERS FOR ANALYSIS

5 REMARKS

TURNAROUND TIME: STD

DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

ON ICE

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Gary Brauchman b. [signature]
RELINQUISHED BY: (Signature) [signature] DATE 8-24-07 TIME 3:30 RECEIVED BY: (Signature) [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) [signature] DATE 8/24 TIME 1530

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

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Marty Goodpasture/Joe Hawkins**

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 # 2308

Generator: Enterprise Products Operating (Substation-Texas City)
Address: 700 14th Street South
Texas City, TX 77590

Waste Information

Name of Waste: Hydroexcavation water
TCEQ Waste Code #: 00041192
Container Type:
Detailed Description of Process Generating Waste:
Jet rodding holes
Color: brown **Odor:** none **pH:** neutral
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

612

SECTION 1: Generator Information

Company:	Enterprise Products Operating (Texas City Terminal)		
Address:	700 14th Street South		
City, State, Zip:	Texas City, TX 77590		
Contact:	Joe Hawkins	**Title:**	Manager
Phone No:	409-945-6622	**Fax No:**	
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD000838698		
State I.D.	36472	**SIC Code:**	5171

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating		
Address:	11750 Almeda		
City, State, Zip:	Houston, TX 77045		
Contact:	Marty Goodpasture	**Title:**	Manager
Phone No:	832-347-4527	**Fax No:**	713-803-2250

SECTION 3: General Description of the Waste

Name of Waste: Hydroexcavation Water
Detailed Description of Process Generating Waste: Jet rodding holes

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

Color: brown **Odor:** none

Specific Gravity (water=1): 1.1 **Density:** 8.5 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): 20 **Other:** ____

Texas State Waste Code No: 0004 1192

Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material

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

Flash Point >140	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 2-10%
Oil&Grease <1500mg/l	**TOC** <1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-98	%
Suspended Clay/dirt	2-10	%

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.
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: (Benzene)
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 Heefner **Date:** 8/31/07

Printed Name/Title: Wesley Heefner / Field Env. Engr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbie Mangan

Date: 9-4-07 Approved Rejected

Approval Number: 2308

Additional Information: 15¢ Gallon - water phase
25¢ Gallon - Filter press solid
Non-Filtered Sludge - 35.00/yd
Trans 70.00/HR
~~Trans~~ Vacuum Truck to pump From Top of Frac tank

IL

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.

Mercury Environmental Services, Inc. F04024

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: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 7080705
Client Sample ID: Purge Water
Extended ID: Enterprise TX City

Sample Collect Date: 8/24/2007 @ 2:30:00 PM **Sample Type:** Grab
Sample Receipt Date: 8/24/2007 @ 3:30:00 PM

Test Group / Method

TCLP Benzene Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Benzene	0.005	0.5	**0.336**	mg/L	8/26/2007 / 9:25 AM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	5	< 5	mg/L	8/25/2007 / 8:41 PM
>C12 - C28 Hydrocarbons	5	**46**	mg/L	8/25/2007 / 8:41 PM
>C28 - C36 Hydrocarbons	5	< 5	mg/L	8/25/2007 / 8:41 PM
Total TPH	15	**46**	mg/L	8/25/2007 / 8:41 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, August 28, 2007
Date

EPAHO103000549

7080705

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	96.7
Toluene-d8	86.3
4-Bromofluorobenzene	99.4

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	98.2	100.7	95.3
C12-C28		< 8	113.2	127.4	120.3

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

August 28, 2007

PAGE 03/03

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 Brauchman

CONTACT PERSON'S PHONE: 713-417 5737 FAX #:

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Enterprise Tract	GR Enterprise Tract	Enterprise Tract

PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Benzene	TPH	NUMBER OF CONTAINERS	PRESERVATIONS
Purge water	G	8/24/07	2:30	C			1	None

3

5 REMARKS

TURNAROUND TIME
STD

DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

OIL
ICE

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Gary Brauchman b.

RELINQUISHED BY: (Signature) | DATE 8/24/07 | TIME 2:30 | 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 8/24/07 | TIME 1530

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**

08/28/2007 11:28 2814764406 MES
EPAHO10300551

WEATHERFORD INTERNATIONAL Inc 2309
2309

EPAHO103000552

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2309

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Antifreeze
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Equipment fluid changes
Color: greenish **Odor:** glycol like **pH:** 7-10
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:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	[redacted] TXCES96		
State I.D.	[redacted] 88169	**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: Anti-freeze
Detailed Description of Process Generating Waste: equipment fluid changes

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

Color: greenish **Odor:** glycol like

Specific Gravity (water=1): 1.3 **Density:** 15 lbs/gal

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

Container Type: ☒ **Drum** ☐ **Tote** ☐ **Truck** ☒ **Other (explain)** ~~50 lb bag~~
Container Size: _____ _____ _____

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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	7-10	0mg/l	0mg/l	<3%

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

EPAHO103000554

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Anti-freeze	~~100~~ 95-100	%
oil	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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. JACKSON

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-6-07 Approved Rejected

Approval Number: 2309

Additional Information: 40 cc/DM
Trans 200 cc p/u + FSC
REC

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

EPAHO103000556

(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.

EPAHO103000557

WEATHERFORD INT. LTD <Pine 2310>
2310

EPAHO10300558

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2310

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Absorbent rags and booms
TCEQ Waste Code #: Recycle
Container Type: 1 yd box
Detailed Description of Process Generating Waste:
Clean up of oil spills from transfering oil and diesel product
Color: various **Odor:** oil and diesel 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.

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**

12

SECTION 1: Generator Information

Company:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCES00		
State I.D.	~~TBD~~ 88169	**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: Absorbent Rags and Booms
Detailed Description of Process Generating Waste: Clean-up of oil spills from transfering oil and diesel product

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

Color: various **Odor:** oil & diesel like

Specific Gravity (water=1): 1.2 **Density:** 10 lbs/gal

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

Container Type:	☒ **Drum**	☐ **Tote**	☐ **Truck**	☒ **Other (explain)**
Container Size:	55	____	____	1 yd bag

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
none	NA	0mg/l	0mg/l	100%

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

EPAHO103000560

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oily Rags	0-100	%
Oily Booms	0-100	%
Oily Absorbent Clay	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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. Jackson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Clayton

Date: 9-6-07 Approved Rejected

Approval Number: 2310

Additional Information: $55.00/Drum
#100.00/yd
Trans 200.00 + FSC
REC

EPAHO103000561

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

EPAHO103000562

(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.

EPAHO103000563

WEATHERFORD INT. < PINEMONT 2311
2311

EPAHO10300564

TE
8-4-09
LAB
T-34

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/31/2007**

Dear **Rick Phillips**

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 # 2311

Generator: Weatherford International Ltd. (Pinemont)
Address: 7721 Pinemont Drive
Houston, TX 77040

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Fluid changes from equipment
Color: 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.

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:	Weatherford International Ltd.		
Address:	7721 Pinemont Drive		
City, State, Zip:	Houston, TX 77040		
Contact:	Derrick Johnson	**Title:**	Shop Foreman
Phone No:	713-580-9737	**Fax No:**	713-580-9797
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	~~TBD~~ TXCESJQG		
State I.D.	~~TBD~~ 88167	**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: Used Oil
Detailed Description of Process Generating Waste: Fluid changes from equipment

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

Color: black **Odor:** oil like

Specific Gravity (water=1): .85 **Density:** 8 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): 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

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	NA	0mg/l	0mg/l	<3%

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

EPAHO103000567

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil	20-100	%
Water	0-80	%
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.
Chlor-D-Tect Upon Receipt

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: Michael S. Jackson **Date:** 8/29/07

Printed Name/Title: Michael S. Jackson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 9-6-07 Approved Rejected

Approval Number: 2311

Additional Information: $ 40.00/Drum
Trans 200.00 + FSC
REC

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

EPAHO103000569

(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.

EPAHO103000570

Dyna Drill <2293> 2093

EPAHO10300571

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Eddie Garcia**

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 # 2293

Generator: Dyna Drill
Address: 4225 World Houston Pkwy
Houston, TX 77032

Waste Information

Name of Waste: Non hazardous wastewater
TCEQ Waste Code #: 00141192
Container Type:
Detailed Description of Process Generating Waste:
Quench water from cleaning of pipe and pipe threading
Color: clear to brown **Odor:** none **pH:** 6-9
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.

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:	Dyna Drill		
Address:	4225 World Houston Drive		
City, State, Zip:	Houston, TX 77032		
Contact:	Eddie Garcia	**Title:**	HSE Manager
Phone No:	281-227-1250	**Fax No:**	281-227-1255
24/hr Phone:	832-452-9570		
U.S. EPA I.D. No:	TXR000033084		
State I.D.	86208	**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 Hazardous Waste Water
Detailed Description of Process Generating Waste: Quench water from cleaning of pipe and pipe threading.

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

Color: Clear to Brown **Odor:** None

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

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: 0014 1192
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Quench Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	6-9	0mg/l	0mg/l	0-4%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<5000mg/l	Namg/l	Namg/l	Namg/l

EPAHO103000573

SECTION 4: Physical and Chemical Data

CONTAMINANTS/PARAMETER	CONCENTRATION	UNIT
The waste consists of the following materials	Ranges are acceptable	or %
Water	96-100	%
Sand, Dirt, Debris	0-4	%

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: Benzene
TCLP Semi-Volatiles: None in Process
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: Eddie Garcia **Date:** 8/14/07

Printed Name/Title: Eddie Garcia HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Rayford Date: 8-16-07 Approved Rejected Approval Number: 2293	**Process Facility Information:** $69/hr .08/gal ($150 min) FSC 20% IL

EPAHO103000574

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

EPAHO103000575

(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.

EPAHO103000576

ENVIRON EXPRESS LABORATORIES, INC.

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

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 62165.01

Customer: CES Env. Svcs. Sample ID: Waste Water Environ ID: 62165.01
Project ID: Ryna Drill Sampled: 08-03-07
Project Loc: Hou., TX Matrix: Water Received: 08-04-07
Charge/P.O.: Type: Grab Reported: 08-09-07

ANALYTE/PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
BTEX - TOTAL								
Benzene	< 0.001	mg/l	--	0.001	EPA SW846.8021B	DMB	08-06-07	11:18
Toluene	< 0.001	mg/l	--	0.001	EPA SW846.8021B	DMB	08-06-07	11:18
Ethylbenzene	< 0.001	mg/l	--	0.001	EPA SW846.8021B	DMB	08-06-07	11:18
Xylenes	< 0.003	mg/l	--	0.003	EPA SW846.8021B	DMB	08-06-07	11:18
Total BTEX	< 0.006	mg/l	--		EPA SW846.8021B	DMB	08-06-07	11:18
TPH								
nC6 to nC12 GRO	< 50	mg/l	--	50	TCEQ 1005.3	DB	08-06-07	23:44
> nC12 to nC28 DRO	< 50	mg/l	--	50	TCEQ 1005.3	DB	08-06-07	23:44
> nC28 to nC35 ORO	< 50	mg/l	--	50	TCEQ 1005.3	DB	08-06-07	23:44
TPH (Total nC6 to nC35)	< 50	mg/l	--		TCEQ 1005.3	DB	08-06-07	23:44
RCI								
Reactive Cyanide	< 50	mg/l	250	50	EPA SW846.7.3.3	LC	08-09-07	14:00
Reactive Sulfide	< 50	mg/l	500	50	EPA SW846.7.3.4	LC	08-09-07	14:05
Corrosivity (pH)	7.22	su	=>2; =<12.5	--	EPA SW846.9045C	LC	08-03-07	17:30
Ignitability	> 160	°F	> 140	--	EPA SW846.1010	LC	08-08-07	12:30
METALS - TCEQ-TCLP					EPA SW846.1311	MN	08-04-07	
Antimony	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Arsenic	< 0.1	mg/l	1.8	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Barium	< 2.0	mg/l	100	2.0	EPA SW846.6010B	JK	08-07-07	14:00
Beryllium	< 0.05	mg/l	0.08	0.05	EPA SW846.6010B	JK	08-07-07	14:00
Cadmium	< 0.1	mg/l	0.5	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Chromium	< 0.1	mg/l	5.0	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Lead	< 0.1	mg/l	1.5	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Nickel	< 0.1	mg/l	70	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Selenium	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	08-07-07	14:00
Silver	< 0.2	mg/l	5.0	0.2	EPA SW846.6010B	JK	08-07-07	14:00
Mercury	< 0.02	mg/l	0.2	0.02	EPA SW846.7470A	MN	08-06-07	09:00

Key: TCLP - Toxicity Characteristic Leaching Procedure; REG - Regulatory Limit (User Should Verify)
EPA - Environmental Protection Agency; MQL - Method Quantitation Limit
TCEQ - Texas Commission on Environmental Quality; RCVD - As Received (Wet) Basis
TPH - Total petroleum Hydrocarbons; mg/l - Milligrams per Liter (PPM Volume)
GRO - Gasoline Range, DRO - Diesel Range, ORO - Oil Range; mg/kg - Milligrams per Kilogram (PPM Weight)

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103000577

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	LEACHATE

ANALYST:	drnb	UNITS:	mg/l	NO.SAMPLES:	10

SAMPLES:	62137-01	62138-01	62149-01	62165-01	62167-01	62167-02	62168-01	62168-02
	62168-02	62169-01						

MATRIX 62138-01	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%)	
									REC-RANGE	RPD
BENZENE	0	100	94	94	91	4	85	0	60 - 120	20
TOLUENE	0	100	87	87	84	4	82	0	60 - 120	20
Et-BENZENE	0	100	87	87	80	8	80	0	60 - 120	20
XYLENES	0	300	283	94	87	8	87	0	60 - 120	20
MTBE	0	100	97	97	88	10	84	0	60 - 120	20

KEY:
BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)
MTBE - Methyl-tert-butyl ether
CCV - Continuing Calibration Verification
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent

John Keller 8/3/07
JOHN KELLER, Ph.D DATE
Lab.Dir./QA-QC Mgr.

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3

ANALYST:	dmb	MATRIX:	SOIL	UNITS:	mg/kg	SAMPLES:	14

SAMPLES:	62158-01	62158-02	62158-03	62158-04	62165-01	62167-01	62167-02
	62168-01	62168-02	62171-01	62171-02	62171-03	62171-04	62171-05

QC SAMPLE	MB	CCV	FB	LCS	LCSD	LCS/LCSD	QC LIMITS	
MB	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	108%	101%	101%	108%	7%	75-125	20
DRO RESULT	< 50	114%	113%	113%	106%	6%	75-125	20

John Keller 8/8/07

JOHN KELLER, Ph.D. Lab.Dir./QA-QC Mgr. DATE

KEY:

TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
CCV - Continuing Calibration Verification
MB - Method Blank
LCS - Laboratory Control Sample
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative % Difference
REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	LIQUID

ANALYST:	JK	DATE:	08.07.07	UNITS:	PPM (mg/l)	NO.SAMPLES:	10

SAMPLES:	62161.01	62162.01	62163.01	62165.01	62167.01	62167.02	62168.01	62168.02
	62170.01	62172.01						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 62161.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4.37	87	87	0	85	0	75 - 125	20
Barium	0.00	5	4.41	88	89	1	94	0	75 - 125	20
Cadmium	0.00	5	4.24	85	86	1	96	0	75 - 125	20
Chromium	0.00	5	4.28	86	86	0	88	0	75 - 125	20
Lead	0.00	5	4.21	84	84	0	88	0	75 - 125	20
Selenium	0.00	5	4.53	91	93	3	89	0	75 - 125	20
Silver	0.00	5	4.18	84	84	0	86	0	75 - 125	20

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX:	LIQUID

ANALYSTS:	MN	DATE:	08.06.07	UNITS:	mg/l	NO.SAMPLES:	8

SAMPLES:	62161.01	62162.01	62163.01	62167.01	62167.02	62168.01	62168.02	62170.01
	62165.01	62172.01						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

JOHN KELLER, Ph.D
Laboratory Director

Thursday 2pm 8/9/07

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page ___ of ___

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: Dan Bowman	Invoice To: Same
Company: CES	Company:
Address: 4904 Scriggs Rd	Address:
City: Houston State: TX Zip: 77021	City: State: Zip:
Phone:	Phone:
Fax:	Fax:
e-Mail:	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) 2°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: Ryan Drill
Project Location: Houston, TX
Project No:
Sampler (Print): Dan Bowman
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	TOTAL EPA TCLP SEMI-VOLS	TOTAL EPA TCLP RCRA 4 METALS
[2] Cntr. Type											
Number											
Volume											
[3] Preservative											
702165.01	1) Waste Water	8/3/07 3:00pm			X	X	X				X
	2)										
	3)										
	4)										
	5)										
	6)										
	7)										
	8)										
	9)										
	10)										

Relinquished By: Dan Bowman	Company: CES	Date/Time: 08/04/07 4:15 pm	Received By: Selena Castillo	Company: ENVIRON
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

[1] 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.

#7/7 ;2814715821 8-9-07; 1:24PM;Environ
EPAHO10300582

VAM-USA (2294)

EPAHO10300583

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/16/2007**

Dear **Rosemary Hoffart**

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 # 2294

Generator: VAM-USA
Address: 19210 Hardy Road
Houston, TX 77073

Waste Information

Name of Waste: Electronic waste
TCEQ Waste Code #: UNIV320H
Container Type: pallet
Detailed Description of Process Generating Waste:
Out-dated, non-functional computer exuipment
Color: various **Odor:** none **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.

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:	VAM USA		
Address:	19210 Hardy Road		
City, State, Zip:	Houston, TX 77073		
Contact:	Rosemary Hoffart	**Title:**	EH & S Manager
Phone No:	281-230-5747	**Fax No:**	281-230-5746
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD991304155		
State I.D.	33140	**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: Electronic Waste
Detailed Description of Process Generating Waste: Out-dated, non-functional computer equipment

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

Color: various **Odor:** none

Specific Gravity (water=1): 2.0 **Density:** 12 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

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 substances, solid, n.o.s., 9, UN3077, PG-III
Class: 9 **UN/NA:** UN3077 **PG:** PG-III **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~~ NA	~~<1500mg/l~~ NA	0mg/l	0-10%mg/l	0-10%mg/l

EPAHO103000585

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Computer equipment, monitors, keyboards, hard-drives	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):
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: Rosemary Hoffart **Date:** 8-8-07

Printed Name/Title: ROSEMARY HOFFART - HSE MANAGER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert [illegible] Additional Information: UNIV .45/lb

Date: 8-16-07 Approved Rejected 70 cu/Hr.

Approval Number: 2294

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.

EPAHO103000588

VAM USA <2295>

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/16/2007**

Dear **Rosemary Hoffart**

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 # 2295

Generator: VAM-USA
Address: 19210 Hardy Road
Houston, TX 77073

Waste Information

Name of Waste: Lead acid batteries
TCEQ Waste Code #: UNIV309H
Container Type: on pallet
Detailed Description of Process Generating Waste:
Spent batteries
Color: various **Odor:** none **pH:** <2
Physical State:
Incompatibilities: oxidizers, bases
Safety Related Data/Special Handling:
level C

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.

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:	VAM USA		
Address:	19210 Hardy Road		
City, State, Zip:	Houston, TX 77073		
Contact:	Rosemary Hoffart	**Title:**	EH & S Manager
Phone No:	281-230-5747	**Fax No:**	281-230-5746
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD991304155		
State I.D.	33140	**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: Lead Acid Batteries
Detailed Description of Process Generating Waste: Spent Batteries

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

Color: various **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:	____	____	____	on pallets

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: UNIV309H
Proper U.S. DOT Shipping Name: Batteries, wet filled with acid, 8, UN2794, PG-III
Class: 8 **UN/NA:** UN 2794 **PG:** PG-III **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	<2.0	0mg/l	0mg/l	80-100%

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

EPAHO103000591

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Lead Acid Batteries	100	%

SECTION 5: Safety Related Data

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

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, 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: Rosemary Hoffmart **Date:** 8-8-07

Printed Name/Title: Rosemary Hoffmart HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Mayer

Date: 8-16-07 (Approved) Rejected

Approval Number: 2295

Additional Information: UNLV
050 / 16
Trans 70%/HW

EPAHO103000592

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.

EPAHO103000594

VAM USA - (2296)

EPAHO103000595

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/16/2007**

Dear **Rosemary Hoffart**

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 # 2296

Generator: VAM-USA
Address: 19210 Hardy Road
Houston, TX 77073

Waste Information

Name of Waste: Fluoroscent light bulbs
TCEQ Waste Code #: UNIV320H
Container Type: box
Detailed Description of Process Generating Waste:
Burned out light fluorescent light 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.

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:	VAM USA		
Address:	19210 Hardy Road		
City, State, Zip:	Houston, TX 77073		
Contact:	Rosemary Hoffart	**Title:**	EH & S Manager
Phone No:	281-230-5747	**Fax No:**	281-230-5746
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD991304155		
State I.D.	33140	**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: Fluorscent Light Bulbs
Detailed Description of Process Generating Waste: Burned out Light Fluorscent Light Bulbs

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

Color: white **Odor:** none

Specific Gravity (water=1): .70 **Density:** 6 lbs/gal

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 **Other:** ____
Texas State Waste Code No: UNIV320H
Proper U.S. DOT Shipping Name: Environmentally hazardous substances, solid, n.o.s., 9, UN3077, PG-III
Class: 9 **UN/NA:** UN3077 **PG:** PG-III **RQ:** NA

Flash Point none	**pH** NA	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease ~~<1500mg/l~~ NA	**TOC** ~~<1500mg/l~~ NA	**Zinc** 0mg/l	**Copper** 0-10%mg/l	**Nickel** 0-10%mg/l

EPAHO103000597

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Fluroscent 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):
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: Tammy Hoffart **Date:** 8-8-07

Printed Name/Title: ROSEMARY HOFFART HSE MANAGER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Boyd

Date: 8-16-07 (Approved) Rejected

Approval Number: 2296

Additional Information: UNIV .50¢/4' BULBS
.25¢ 5-8' BULBS
TRANS 70 CU/HR

EPAHO103000598

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.

CENTRAL FREIGHT LINES 2297

2297

EPAHO10300601

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/16/2007**

Dear **Jeff Westbrook**

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 # 2297

Generator: Central Freight Lines, Inc (Houston)
Address: 5800 Mesa Drive
Houston, TX 77028

Waste Information

Name of Waste: Recyclable hydrocarbons
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused products from damaged containers from trucking company
Color: varies **Odor:** hydrocarbon **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
standard 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.

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:	Central Freight Lines, Inc		
Address:	5800 Mesa Drive		
City, State, Zip:	Houston, TX 77028-4908		
Contact:	Jeff Westbrook	**Title:**	Terminal Maintenance Supervisor
Phone No:	713-636-7528	**Fax No:**	713-636-7508
24/hr Phone:	713-539-9121		
U.S. EPA I.D. No:	TXD007864119		
State I.D.	69620	**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: Recyclable hydrocarbons
Detailed Description of Process Generating Waste: Unused products from damaged containers from trucking company

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

Color: Varies **Odor:** hydrocarbon

Specific Gravity (water=1): 09-1 **Density:** 8-8.5 lbs/gal

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

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

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Recyclable Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point <88 and 150-165	**pH** neutral	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 0%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000603

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Glycol ether	0-30	%
Diesel Additive	0-30	%
Water	0-40	%

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

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:** 6-28-07

Printed Name/Title: Jeff Westbrook/ Terminal Maintenance Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature] Date: 8-16-07 Approved Rejected Approval Number: 2297	55gal - $45.00/drum 5gal - $25.00/bucket REC

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

EPAHO103000605

(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.

EPAHO103000606

Flammable liq. 28

Material Safety Data Sheet

Polyfoam Products Inc.
P.O. Box 1539
Tomball, TX 77375
Product: Glycol Ether

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 800 424-9300
Product: GLYCOL ETHER

Effective Date: 01/01/00

Polyfoam Products Inc. Tomball, TX

Customer Information Center:800-774-3626

2. COMPOSITION/INFORMATION ON INGREDIENTS

1-Methoxy-2-propanol CAS# 000107-98-2 99% min.

2-Methoxy-1-propanol CAS# 001589-47-5 <0.5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- Clear, colorless liquid. Slight ether odor. Flammable.
- *Vapors may travel a long distance; ignition and/or flash back*
- may occur. Warn public of downwind explosion hazard.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: Prolonged or repeated exposure may cause skin irritation. Prolonged skin contact with very large amounts may cause drowsiness.

INGESTION: Single dose oral toxicity is considered to be extremely low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

INHALATION: The odor is objectionable at 100 ppm; higher levels produce eye, nose, and throat irritation and are intolerable at 1000 ppm. Anesthetic effects are seen at or above 1000 ppm.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Observations in animals

(Continued on page 2)

Polyfoam Products Inc.
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Product: Glycol Ether

include liver and kidney effects. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus.

CANCER INFORMATION: Did not cause cancer in laboratory animals.

REPRODUCTIVE EFFECTS: In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

4. FIRST AID

EYE: Flush eyes with plenty of water.
SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: 88.OF, 31.1C
METHOD USED: Setaflash
AUTOIGNITION TEMPERATURE: 549F, 287C
FLAMMABILITY LIMITS LFL: 1.5 vol% @ 151C UFL: 13.74 vol% @ 151C

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

(Continued on page 3)

Polyfoam Products Inc.
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OTHER FLAMMABILITY INFORMATION: Violent steam generation or eruption may occur upon application of direct water stream. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentration of vapor can accumulate at temperatures above 90 deg. F. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

EXTINGUISHING MEDIA: Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

MEDIA TO BE AVOIDED: Do not use direct water stream.
FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Eliminate ignition sources. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Do not use direct water stream. May spread fire. Water may not be effective in extinguishing fire. Move container from fire area if this is possible without hazard.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)
PROTECT PEOPLE: Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. For large spills, warn public of downwind explosion hazard. Check area

(Continued on page 4)

Polyfoam Products Inc.
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Tomball, TX 77375
Product: Glycol Ether

with explosion meter before reentering area. Ground and bond all containers and handling equipment.

PROTECT THE ENVIRONMENT: Vapor explosion hazard, keep out of sewers.

CLEANUP: Pump with explosion-proof equipment. Absorb with material such as dirt or sand. If available, use foam to smother or suppress.

7. HANDLING AND STORAGE

HANDLING: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. No smoking, open flames or sources of ignition in handling and storage area. Never use air pressure for transferring product. Electrically ground all equipment.

STORAGE: Use of non-sparking or explosion proof equipment may be necessary, depending upon the type of operation. Minimize sources of ignition, such as static buildup, heat, spark or flame. Keep containers tightly closed when not in use. Store in carbon steel, stainless steel, Teflon.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

RESPIRATORY PROTECTION: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

EXPOSURE GUIDELINES: Propylene glycol monomethyl ether: ACGIH TLV and OSHA PEL are 100 ppm TWA, 150 ppm STEL. PELs are in accord

(Continued on page 5)

Polyfoam Products Inc.
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with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE: Clear, colorless liquid. ODOR: Slight ether; objectionable @ 100 ppm or higher. VAPOR PRESSURE: 11.829 mmHg @ 25C VAPOR DENSITY: 3.12 BOILING POINT: 248.3F, 120C SOLUBILITY IN WATER: Infinitely. SPECIFIC GRAVITY: 0.919 @ 25/25C VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: 919 g/L or 7.65 lb/gal as per Rule 443.1 of California SCAQMD

10. STABILITY AND REACTIVITY
CHEMICAL STABILITY: Stable under recommended storage conditions. See Storage Section.
CONDITIONS TO AVOID: Avoid static discharge. Flammable vapors can be released at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Does not normally decompose. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or nonemergency number shown in Section 1)

SKIN: The LD50 for skin absorption in rabbits is approximately 13,000 mg/kg (12 ml/kg).

INGESTION: The oral LD50 for rats is 7200 mg/kg (6.6 ml/kg.).

MUTAGENICITY: In vitro mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)
ENVIRONMENTAL FATE

(Continued on page 6)

Polyfoam Products Inc.
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MOVEMENT & PARTITIONING: Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Log octanol/water partition coefficient (log Pow) is estimated using structural fragment method to be -0.49. Soil organic carbon partition coefficient (log Koc) is estimated to be 0.2-1.0. Potential for mobility in soil is very high (Koc between 0 and 50). Henry',s Law Constant (H) is estimated to be 1.40E-06 atm-m3/mole.

DEGRADATION & PERSISTENCE: Biodegradation reached in Modified OECD Screening Test (OECD Test No. 301 E) after 28 days: 96-0
20-Day biochemical oxygen demand (BOD20) is 1.14 p/p.
5-Day biochemical oxygen demand (BOD5) is below detection limits.
Tropospheric half-life is estimated to be 3.1-7.8 hr.
Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >1000 mg/L.
Theoretical oxygen demand (ThOD) is calculated to be 1.95 p/p.
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

ECOTOXICITY: Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species). Acute LC50 for fathead minnow (Pimephales promelas) is 20,800 mg/L. Acute LC50 for water flea Daphnia magna is 23,300 mg/L. Growth inhibition EC50 for green alga Selenastrum capricornutum is >1000 mg/L.
Acute LC50 for golden orfe (Leuciscus idus)is 4600-10,000 mg/L.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

(Continued on page 7)

Polyfoam Products Inc.
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FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your Polyfoam Products representative.

CANADIAN TDG INFORMATION:For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive-selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and

(Continued on page 8)

Polyfoam Products Inc.
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REGULATORY INFORMATION (CONTINUED)

is considered, under applicable definitions, to meet the following categories:

- delayed health hazard
- fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

The CAS Number for TSCA is 107-98-2.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
2-PROPANOL, 1-METHOXY-	000107-98-2	NJ3 PA1

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%). PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

B2 - flammable liquid with a flash point less than 37.8C

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Polyfoam Products Inc.
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REGULATORY INFORMATION (CONTINUED)

D2B - eye or skin irritant
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT(*.w/w)
1-Methoxy-2-propanol	CAS# 000107-98-2	99% min.

16. OTHER INFORMATION

MSDS STATUS: Revised Section 2 and 15 (Canadian regulations).

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:
Health 1
Flammability 3
Reactivity 0
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made.

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards and European Union Directives

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	**STAR*TRON DIESEL ADDITIVE**
CHEMICAL NAME/CLASS:	Petroleum Distillate/Organic Compound Mixture
PRODUCT USE:	Diesel Additive
PRODUCT NUMBER:	93108, 93116, 93132, 93100, 93105, 93155
MANUFACTURER'S NAME:	**STAR BRITE**
U.S. ADDRESS:	4041 S.W. 47 Avenue Ft. Lauderdale, FL 33314
U.S. EMERGENCY PHONE:	Chemtrec (800) 424-9300 or (703) 527-3887
U.S. INFORMATION PHONE:	(954) 587-6280
INTERNATIONAL ADDRESS:	
INTERNATIONAL EMERGENCY PHONE:	
INTERNATIONAL BUSINESS PHONE:	
REVISION DATE:	October 7, 2006 Replaces: June 1, 2006

2. COMPOSITION and INFORMATION ON INGREDIENTS

EU LABELING AND CLASSIFICATION: This product meets the definition of the hazard class of Harmful, as defined by the European Economic Community Guidelines.

EU CLASSIFICATION: [Xn] Harmful.

EU RISK PHRASES: [R: 65]: Harmful, may cause lung damage if swallowed.

EU SAFETY PHRASES: [S: 2-]: Keep out of the reach of children. *(This safety phrase can be omitted from the label when the substance or preparation is sold for industrial use only).* [S: 23]: Do not breathe fumes, vapors or spray. [S: 62]: If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

CHEMICAL NAME	CAS #	EINECS #	% w/v	EU CLASSIFICATION FOR COMPONENTS
Proprietary Organic Compounds			< 0.5	HAZARD CLASSIFICATION: Not applicable. RISK PHRASES: Not applicable.
Solvent Naphtha (Petroleum), Heavy Aliphatic	64742-96-7	265-200-4	> 95	HAZARD CLASSIFICATION: Xn [Harmful] RISK PHRASES: R: 65

See Section 15 for full EU classification information of product and components.

NOTE: ALL Canadian WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. The MSDS is also prepared to include all European Union required information under EU Directives.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear, colorless liquid with a mild, paraffin-like odor. **Health Hazards:** Inhalation overexposures to mists or sprays of this product can cause central nervous system effects. Severe inhalation exposures may be fatal. Skin contact may cause allergic reaction. **Flammability Hazards:** This product is combustible and may ignite if heated at or above its flash point of 65.5-73.8°C (150-165°F). If involved in a fire, this product will produce irritating and toxic materials such as various carbon oxides, hydrocarbons and aldehydes. **Reactivity Hazards:** This product is not reactive. **Environmental Hazards:** This material may be harmful or fatal to contaminated plant, animal, and aquatic life. **Emergency Recommendations:** Emergency responders must wear the personal protective equipment suitable for the situation to which they are responding.

EPAHO103000616

3. HAZARD IDENTIFICATION (Continued)

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of occupational overexposure are inhalation and contact with skin and eyes. The symptoms of overexposure to this product are described on the following page.

INHALATION: Due to the high vapor pressure of the main component, formation of mists or sprays of this product are unlikely, unless the product is heated or used in a manner to produce sprays. If this product inhaled, fume, mists or sprays can mildly irritate the respiratory system and cause coughing, sneezing, and difficulty breathing. Depending on the concentration and duration of exposure, inhalation overexposure can cause central nervous system depression, including dizziness, headache, nausea, fatigue, vomiting and incoordination. Severe inhalation overexposure (as may occur in a confined space with inadequate ventilation) may cause unconsciousness and death.

CONTACT WITH SKIN or EYES: Skin contact can cause mild to moderate irritation, depending on the duration and concentration of exposure. Symptoms of such overexposure may cause redness and irritation. Prolonged or repeated skin contact with this product may cause dermatitis (dry, red, scaly skin). Eye contact with this product may cause irritation, redness, and watering.

SKIN ABSORPTION: The components of this product are not known to be absorbed through intact skin.

INGESTION: Ingestion is not anticipated to be a significant route of exposure for any component of this product. If this product is swallowed, it may cause nausea, vomiting, and diarrhea. A significant hazard associated with ingestion of this product is aspiration; breathing this material into the lungs can cause severe lung irritation and tissue damage, which can cause chemical pneumonia or pulmonary edema (life-threatening lung conditions).

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH HAZARD	(BLUE)	2
FLAMMABILITY HAZARD	(RED)	2
PHYSICAL HAZARD	(ORANGE)	0

PROTECTIVE EQUIPMENT

EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8

For Routine Industrial Use and Handling Applications

See Section 16 for Definition of Ratings

INJECTION: Injection of this product (as may occur if skin is punctured by a contaminated object) can cause pain, redness, and local swelling.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**. In the event of overexposure, the following symptoms may be observed:

ACUTE: Inhalation of fumes, mists or sprays can cause adverse effects on the central nervous system. Severe inhalation overexposure may cause unconsciousness and death. A significant hazard associated with ingestion of this product is aspiration; breathing this material into the lungs can cause severe lung irritation and tissue damage, which can cause chemical pneumonia or pulmonary edema (life-threatening lung conditions).

CHRONIC: Repeated skin contact with this product may cause dermatitis (dry, red, scaly skin). See Section 11 (Toxicology Information) for additional data.

TARGET ORGANS: ACUTE: Skin, eyes, central nervous system. CHRONIC: Skin.

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

Contaminated individuals must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of label and MSDS to health professional with the contaminated individual.

SKIN EXPOSURE: If this product contaminates the skin, immediately begin decontamination with running water and soap. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual must seek immediate medical attention if any adverse health effect occurs.

EYE EXPOSURE: If this product's liquid or vapors enter the eyes, open the contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have the contaminated individual "roll" eyes. Minimum flushing is for 15 minutes.

INHALATION: If vapors, mists, or sprays of this product are inhaled, remove the contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. The contaminated individual should seek immediate medical attention.

EPAHO103000617

4. FIRST-AID MEASURES (Continued)

INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Have victim rinse mouth with water or drink several cupfuls of water, if conscious. Never induce vomiting or give a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting respiratory problems, dermatitis, other skin disorders, and central nervous disorders may be aggravated by exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure. Provide oxygen, if necessary. Pulmonary function tests, chest X-rays, and nervous system evaluations may prove useful.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 65.5-73.8°C (150-165°F)

AUTOIGNITION TEMPERATURE: >600 F° >315 C°

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): (%) 0.7 vol % (estimated)

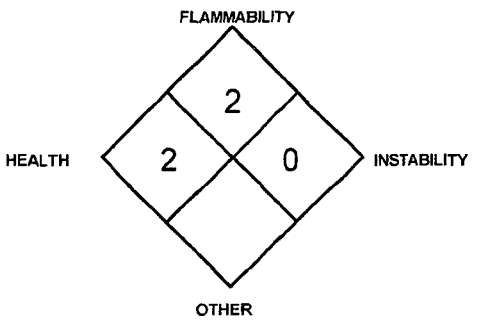
Upper (UEL): (%) 6 vol % (estimated)

FIRE EXTINGUISHING MATERIALS:

Water Spray: YES	Carbon Dioxide: YES
Foam: YES	Dry Chemical: YES
Halon: YES	Other: Any "ABC" Class.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is Class IIIA combustible liquid, which can ignite if heated at or above its flash point of 65.5-73.8°C (150-165°F). If involved in a fire, this product will produce irritating and toxic materials such as various carbon oxides, aldehydes and hydrocarbons. This product can float on water and may travel to distant locations and spread fire. Containers may rupture violently when exposed to fire or excessive heat for sufficient time.

NFPA RATING



See Section 16 for Definition of Ratings

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: In general, materials similar to this product have low electrical conductivities and therefore the liquid can accumulate static charge by flow, agitation or pouring. The warmed vapour can be ignited by an electrostatic discharge of sufficient energy.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Chemical resistant clothing may be necessary. Move containers from fire area if it can be done without risk to personnel. Water spray can be used to cool fire-exposed containers. Avoid getting water into containers because of the danger of boiling over. Stop leak before attempting to stop the fire. If the leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out. Water fog or spray can also be used by trained firefighters to disperse this product's vapors and to protect personnel. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. Rinse contaminated equipment thoroughly with soapy water before returning such equipment to service.

6. ACCIDENTAL RELEASE MEASURES

RELEASE RESPONSE: In case of a release, clear the affected area and protect people. Spills will be slippery. Eliminate all sources of ignition before cleanup begins. Use non-sparking tools. Appropriately trained personnel in proper personal protective equipment, using pre-planned procedures should respond to uncontrolled releases. The proper personal protective equipment for incidental releases (e.g., 32-ounce container) should be rubber gloves and goggles. In the event that cleanup will generate excessive splashes, a face-shield, boots, and chemical resistant body protection should also be worn. In the event of a non-incidental release (e.g., several 1-gallon containers released in a poorly ventilated area), minimum Personal Protective Equipment should be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard hat, and Self-Contained Breathing Apparatus. A fire-retardant suit must be worn over the chemical resistant suit. Short-term colorimetric detector tubes for the determination of hydrocarbons and petroleum hydrocarbons are commercially available. Monitor area for combustible vapor levels. Monitoring must indicate less than 10% LEL (refer to Section 5, Fire-fighting Measures) before emergency response personnel are permitted in the area. Monitoring must indicate that oxygen levels are above 19.5% before anyone is permitted in the area without Self-Contained Breathing Apparatus. Absorb spilled liquid with activated carbon, polypads, or other suitable absorbent materials. Decontaminate the area thoroughly. Place all spill residue in an appropriate container and seal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures, or appropriate standards of Canada or EU Member States (see Section 13, Disposal Considerations).

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PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors, mists, or sprays of this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to handle it safely. Keep away from heat, sparks, and other sources of ignition. Keep container tightly closed when not in use. Open containers slowly on a stable surface. Use non-sparking tools. Bond and ground containers during transfers of material. If this product is transferred into another container, only use portable containers and dispensing equipment (faucet, pump, drip can) approved for flammable liquids. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store away from incompatible materials (see Section 10, Stability and Reactivity). Containers should be separated from oxidizing materials by a minimum distance of 20 ft. or by a barrier of non-combustible material at least 5 ft. high having a fire-resistance rating of at least 0.5 hours. Storage areas should be made of fire resistant materials. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Have appropriate extinguishing equipment in the storage area (e.g., sprinkler system, portable fire extinguishers). Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Refer to NFPA 30, *Flammable and Combustible Liquids Code*, for additional information on storage. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Never perform any welding, cutting, soldering, drilling, or other hot work on an empty container or piping until all liquid, vapors, and residue have been cleared.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely, if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures and appropriate Canadian standards, or those of EU Member States.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below, if applicable. Use a non-sparking, grounded, explosion-proof ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside, taking necessary precautions for environmental protection. Ensure eyewash/safety shower stations are available near areas where this product is used.

EXPOSURE LIMITS/GUIDELINES:

CHEMICAL NAME	CAS #	EXPOSURE LIMITS IN AIR									
		ACGIH-TLVs		OSHA-PELs		NIOSH-RELs		NIOSH	AIHA WEELs		OTHER
		TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	IDLH mg/m^3	TWA mg/m^3	STEL mg/m^3	mg/m^3
Solvent Naphtha (Petroleum), Heavy Aliphatic (exposure limits are for kerosene)	64742-96-7	200 (skin) as total hydrocarbon (P)	NE	NE	NE	100	NE	NE	NE	NE	Carcinogen: TLV-A3
Proprietary Organic Compounds Mixture		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

NE = Not Established. P = Avoid prolonged and repeated skin contact to diesel fuels which can lead to dermal irritation and may be associated with an increased risk of skin cancer. See Section 16 for Definitions of Terms Used.

EYE PROTECTION: Splash goggles or safety glasses. Face-shields should be worn if operations will generate splashes or sprays. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, or the European Standard EN166.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below exposure limits listed above, if applicable. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, the Canadian CSA Standard Z94.4-93, the European Standard EN149, or Standards of EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHAs Respiratory Protection Standard (1910.134-1998). The following are NIOSH respiratory protective equipment for Kerosenes.

KEROSENE

CONCENTRATION	RESPIRATORY PROTECTION
Up to 1000 mg/m^3:	Any chemical cartridge respirator with organic vapor cartridge(s), or any Supplied-Air Respirator (SAR), or any SAR operated in a continuous-flow mode, or any Powered, Air-Purifying Respirator (PAPR) with organic vapor cartridge(s).

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8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

RESPIRATORY PROTECTION (continued):

KEROSENE (continued)

CONCENTRATION	RESPIRATORY PROTECTION
Up to 5000 mg/m^3:	Any Chemical Cartridge Respirator with a full facepiece and organic vapor cartridge(s), or any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting facepiece and organic vapor cartridge(s), or any Self-Contained Breathing Apparatus with a full facepiece, or any SAR.
Emergency or Planned	Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-pressure mode.
Escape:	Any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any appropriate escape-type, SCBA.

HAND PROTECTION: Wear Nitrile rubber, Polyethylene, Viton ™ gloves (resistance to breakthrough longer than 8 hours when tested against a similar petroleum substance) for routine industrial use. Natural rubber and butyl rubber gloves are not recommended. Resistance of specific materials can vary from product to product. Evaluate resistance under conditions of use and maintain clothing carefully. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS. If necessary, refer to U.S. OSHA 29 CFR 1910.138, appropriate Standards of Canada, or appropriate Standards of the European Union.

BODY PROTECTION: If operations will generate splashes or sprays, use body protection appropriate for task (e.g., coveralls or apron). If necessary, refer to appropriate Standards of Canada or the European Union. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

SPECIFIC VAPOR DENSITY (air = 1): > 5.0

EVAPORATION RATE (n-BuAc = 1): < 10

SPECIFIC GRAVITY @ 60°F (water = 1): 0.804-0.815

MELTING/FREEZING POINT: -42.7°C (-45.0°F)

SOLUBILITY IN WATER: Less than 0.01

BOILING POINT @ 760 mmHg: IBP >400 (D86) F°
IBP >204 (D86) C°

VAPOR PRESSURE, mm Hg @ 20°C (68°F): 0.010

pH: Not applicable.

ODOR THRESHOLD: Not established.

% VOLATILES: 100%

LIQUID DENSITY: 6.7 lb/gal @ 60°F/0.804 lb/gal @ 16°C

BULK DENSITY: 900 lb/ft^3

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not established.

APPEARANCE, ODOR AND COLOR: This product is a clear, colorless liquid with a mild, paraffin-like odor.

HOW TO DETECT THIS SUBSTANCE (warning properties): The odor may act as a distinguishing characteristic of this product.

10. STABILITY and REACTIVITY

STABILITY: Normally stable.

DECOMPOSITION PRODUCTS: Thermal decomposition of this product can produce various hydrocarbons, carbon oxides and aldehydes.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This product is not compatible with strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid exposure to or contact with extreme temperatures and incompatible chemicals.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: *Currently, there are no toxicological data available for components*

SUSPECTED CANCER AGENT: Petroleum Distillates, Solvent, Aliphatic compounds, such as the main component of this product are listed as follows:

ACGIH TLV-A3 [Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not conform an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.] **IARC-3** [Unclassifiable as to Carcinogenicity in Humans: This category is used most commonly for agents, mixtures, and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. Exceptionally, agents (mixtures) for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental does not operate in humans. Agents, mixtures, and exposure circumstances that do not fall into any other group are also placed in this category.]

The remaining component of this product is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, and CAL/OSHA and therefore is neither considered to be nor suspected to be a cancer-causing agent by these agencies.

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11. TOXICOLOGICAL INFORMATION (Continued)

IRRITANCY OF PRODUCT: This product can be mildly irritating to eyes, skin, and other contaminated tissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a human skin or respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to cause mutagenic effects in humans.

Embryotoxcity: The components of this product are not reported to cause embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to cause teratogenic effects in humans.

Reproductive Toxicity: The components of this product are not reported to cause adverse reproductive effects in humans.

A mutagen is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES: Currently, there are no Biological Exposure Indices (BEIs) determined for the components of this product.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: The components of this product are relatively stable under ambient, environmental conditions.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product may be harmful or fatal to contaminated plant and animal life (especially if large quantities are released).

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product may be harmful or fatal to contaminated aquatic plant and animal life. This material floats on water, and can potentially form slicks that are capable of creating oxygen-deprived waterways and severely contaminate coastal and shore life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada or EU Member States. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA WASTE NUMBER: Wastes of this product should be tested to see if they are wastes as defined under EPA criteria for D001 listed wastes (Waste Characteristic- Ignitabity).

14. TRANSPORTATION INFORMATION

Call for information

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for any component of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: OSHA Standard for Flammable and Combustible Liquids (29 CFR 1910.106). Depending on specific operations involving the use of this product, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation, the components of this product are/are not listed in Appendix A (provided Threshold Quantities for Listed Substances); however, any process that involves a flammable liquid on-site, in one location, in quantities of 10,000 lb. (4,553 kg) or greater is covered under this regulation unless it is used as a fuel. Vegetable Oils, such as the Linseed Oil components of this product, are considered OSHA Table Z-1-A air contaminants.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No component of this product is on the California Proposition 65 lists.

LABELING (Precautionary Statements) ANSI LABELING (Z129.1): **WARNING!** COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED. ASPIRATION HAZARD-INGESTION CAN CAUSE

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LIFE-THREATENING LUNG DAMAGE. Keep away from heat, sparks, and flame. Avoid breathing mists or sprays. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling. Wear gloves and goggles. **FIRST-AID:** In case of contact, immediately flush skin or eyes for at least 15 minutes with large amounts of water. If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, do not induce vomiting. Get medical attention immediately. **IN CASE OF FIRE:** Use foam, dry chemical, or carbon dioxide. Liquid will float and may re-ignite on the surface of water. **IN CASE OF SPILL:** Absorb spill with inert material and place in suitable container. Refer to Material Safety Data Sheet for additional information on this product.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL Inventory.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this product are not on the CEPA Priority Substances Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: **Class B3:** Combustible Liquid
Class D2B: Materials Causing Other Toxic Effects/Toxic Material (irritation).

EUROPEAN UNION INFORMATION FOR PRODUCT:

EU LABELING AND CLASSIFICATION: This product meets the following definitions, per the European Union Council Directives.

EU CLASSIFICATION: [Xn] Harmful.

EU RISK PHRASES: [R: 65]: Harmful; may cause lung damage if swallowed.

EU SAFETY PHRASES: [S: 2-]: Keep out of the reach of children. *(This safety phrase can be omitted from the label when the substance or preparation is sold for industrial use only).* [S: 23]: Do not breathe fumes, vapors or spray. [S: 62]: If swallowed, do not induce vomiting. Seek medical advice immediately and show this container and label.

EU SAFETY PHRASES: [S(2–)*]: Keep out of reach of children. **This safety phrase can be omitted from the label when the substance or preparation is sold for industrial use only.* [S: 24]: Avoid contact with the skin. [S: 62]: Do not breathe fumes, vapour or spray (appropriate wording to be specified by the manufacturer).

EUROPEAN UNION INFORMATION FOR PRODUCT:

EU LABELING AND CLASSIFICATION (continued):

EUROPEAN UNION ANNEX II HAZARD SYMBOL:

EUROPEAN UNION INFORMATION FOR CONSTITUENTS: The following information is available for primary constituents in the components of this product.

Solvent Naphtha (Petroleum), Heavy Aliphatic:

EU EINECS/ELINCS NUMBER: 265-200-4

EU CLASSIFICATION: Harmful. [Xn]

EU RISK PHRASES: [R: 65]: Harmful; may cause lung damage if swallowed.

EU SAFETY PHRASES: [S: 2-]: Keep out of the reach of children. *(This safety phrase can be omitted from the label when the substance or preparation is sold for industrial use only).* [S: 23]: Do not breathe fumes, vapors or spray. [S: 62]: If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

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16. OTHER INFORMATION

PREPARED BY: CHEMICAL SAFETY ASSOCIATES, Inc.
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The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Star brite assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Star brite assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on an MSDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each constituent.

EXPOSURE LIMITS IN AIR:

CEILING LEVEL: The concentration that shall not be exceeded during any part of the working exposure.

LOQ: Limit of Quantitation.

MAK: Federal Republic of Germany Maximum Concentration Values in the workplace.

NE: Not Established. When no exposure guidelines are established, an entry of NE is made for reference.

NIC: Notice of Intended Change.

NIOSH CEILING: The exposure that shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, the ceiling shall be assumed as a 15-minute TWA exposure (unless otherwise specified) that shall not be exceeded at any time during a workday.

NIOSH RELs: NIOSH's Recommended Exposure Limits.

PEL-Permissible Exposure Limit: OSHA's Permissible Exposure Limits. This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

SKIN: Used when a there is a danger of cutaneous absorption.

STEL-Short Term Exposure Limit: Short Term Exposure Limit, usually a 15-minute time-weighted average (TWA) exposure that should not be exceeded at any time during a workday, even if the 8-hr TWA is within the TLV-TWA, PEL-TWA or REL-TWA.

TLV-Threshold Limit Value: An airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour.

EXPOSURE LIMITS IN AIR (continued):

TWA-Time Weighted Average: Time Weighted Average exposure concentration for a conventional 8-hr (TLV, PEL) or up to a 10-hr (REL) workday and a 40-hr workweek.

IDLH-Immediately Dangerous to Life and Health: This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS: This rating system was developed by the National Paint and Coating Association and has been adopted by industry to identify the degree of chemical hazards.

HEALTH HAZARD:

0 (Minimal Hazard: No significant health risk, irritation of skin or eyes not anticipated. *Skin Irritation*: Essentially non-irritating. PII or Draize = "0". *Eye Irritation*: Essentially non-irritating, or minimal effects which clear in < 24 hours [e.g. mechanical irritation]. Draize = "0". *Oral Toxicity LD_{50} Rat*: < 5000 mg/kg. *Dermal Toxicity LD_{50}Rat or Rabbit*: < 2000 mg/kg. *Inhalation Toxicity 4-hrs LC_{50} Rat*: < 20 mg/L.); 1 (Slight Hazard: Minor reversible injury may occur; slightly or mildly irritating. *Skin Irritation*: Slightly or mildly irritating. *Eye Irritation*: Slightly or mildly irritating. *Oral Toxicity LD_{50} Rat*: > 500-5000 mg/kg. *Dermal Toxicity LD_{50}Rat or Rabbit*: > 1000-2000 mg/kg. *Inhalation Toxicity LC_{50}* 4-hrs *Rat*: > 2-20 mg/L); **2** (Moderate Hazard: Temporary or transitory injury may occur. *Skin Irritation*: Moderately irritating; primary irritant; sensitizer. PII or Draize > 0, < 5. *Eye Irritation*: Moderately to severely irritating and/or corrosive; reversible corneal opacity; corneal involvement or irritation clearing in 8-21 days. Draize > 0, ≤ 25. *Oral Toxicity LD_{50} Rat*: > 50-500 mg/kg. *Dermal Toxicity LD_{50}Rat or Rabbit*: > 200-1000 mg/kg. *Inhalation Toxicity LC_{50} 4-hrs Rat*: > 0.5-2 mg/L.);

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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

HEALTH HAZARD (continued):

3 (Serious Hazard: Major injury likely unless prompt action is taken and medical treatment is given; high level of toxicity; corrosive. *Skin Irritation*: Severely irritating and/or corrosive; may destroy dermal tissue, cause skin burns, dermal necrosis. PII or Draize > 5-8 with destruction of tissue. *Eye Irritation*: Corrosive, irreversible destruction of ocular tissue; corneal involvement or irritation persisting for more than 21 days. Draize > 80 with effects irreversible in 21 days. *Oral Toxicity LD_{50} Rat*: > 1-50 mg/kg. *Dermal Toxicity LD_{50}Rat or Rabbit*: > 20-200 mg/kg. *Inhalation Toxicity LC_{50} 4-hrs Rat*: > 0.05-0.5 mg/L.); **4** (Severe Hazard: Life-threatening; major or permanent damage may result from single or repeated exposure. *Skin Irritation*: Not appropriate. Do not rate as a "4", based on skin irritation alone. *Eye Irritation*: Not appropriate. Do not rate as a "4", based on eye irritation alone. *Oral Toxicity LD_{50} Rat*: ≤ 1 mg/kg. *Dermal Toxicity LD_{50}Rat or Rabbit*: ≤ 20 mg/kg. *Inhalation Toxicity LC_{50} 4-hrs Rat*: ≤ 0.05 mg/L).

FLAMMABILITY HAZARD:

0 (Minimal Hazard-Materials that will not burn in air when exposure to a temperature of 815.5°C [1500°F] for a period of 5 minutes.); **1** (Slight Hazard-Materials that must be pre-heated before ignition can occur. Material require considerable pre-heating, under all ambient temperature conditions before ignition and combustion can occur, Including: Materials that will burn in air when exposed to a temperature of 815.5°C (1500°F) for a period of 5 minutes or less; Liquids, solids and semisolids having a flash point at or above 93.3°C [200°F] (e.g. OSHA Class IIIB, or; Most ordinary combustible materials [e.g. wood, paper, etc.]; **2** (Moderate Hazard-Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not, under normal conditions, form hazardous atmospheres in air, but under high ambient temperatures or moderate heating may release vapor in sufficient quantities to produce hazardous atmospheres in air, Including: Liquids having a flash-point at or above 37.8°C [100°F]; Solid materials in the form of course dusts that may burn rapidly but that generally do not form explosive atmospheres; Solid materials in a fibrous or shredded form that may burn rapidly and create flash fire hazards (e.g. cotton, sisal, hemp; Solids and semisolids that readily give off flammable vapors.); **3** (Serious Hazard- Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures, or, unaffected by ambient temperature, are readily ignited under almost all conditions, including: Liquids having a flash point below 22.8°C [73°F] and having a boiling point at or above 38°C [100°F] and below 37.8°C [100°F] [e.g. OSHA Class IB and IC]; Materials that on account of their physical form or environmental conditions can form explosive mixtures with air and are readily dispersed in air [e.g., dusts of combustible solids, mists or droplets of flammable liquids]; Materials that burn extremely rapidly, usually by reason of self-contained oxygen [e.g. dry nitrocellulose and many organic peroxides]); **4** (Severe Hazard-Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air, and which will burn readily, including: Flammable gases; Flammable cryogenic materials; Any liquid or gaseous material that is liquid while under pressure and has a flash point below 22.8°C [73°F] and a boiling point below 37.8°C [100°F] [e.g. OSHA Class IA; Material that ignite spontaneously when exposed to air at a temperature of 54.4°C [130°F] or below [e.g. pyrophoric]).

PHYSICAL HAZARD:

0 (*Water Reactivity*: Materials that do not react with water. *Organic Peroxides*: Materials that are normally stable, even under fire conditions and will not react with water. *Explosives*: Substances that are Non-Explosive. Unstable *Compressed Gases*: No Rating. *Pyrophorics*: No Rating. *Oxidizers*: No "0" rating allowed. *Unstable Reactives*: Substances that will not polymerize, decompose, condense or self-react.); **1** (*Water Reactivity*: Materials that change or decompose upon exposure to moisture. *Organic Peroxides*: Materials that are normally stable, but can become unstable at high temperatures and pressures. These materials may react with water, but will not release energy. *Explosives*: Division 1.5 & 1.6 substances that are very insensitive explosives or that do not have a mass explosion hazard.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

PHYSICAL HAZARD (continued):

1 (continued): *Compressed Gases*: Pressure below OSHA definition. *Pyrophorics*: No Rating. *Oxidizers*: Packaging Group III; Solids: any material that in either concentration tested, exhibits a mean burning time less than or equal to the mean burning time of a 3:7 potassium bromate/cellulose mixture and the criteria for Packing Group I and II are not met. Liquids: any material that exhibits a mean pressure rise time less than or equal to the pressure rise time of a 1:1 nitric acid (65%)/cellulose mixture and the criteria for Packing Group I and II are not met. *Unstable Reactives*: Substances that may decompose, condense or self-react, but only under conditions of high temperature and/or pressure and have little or no potential to cause significant heat generation or explosive hazard. Substances that readily undergo hazardous polymerization in the absence of inhibitors.); **2** (*Water Reactivity*: Materials that may react violently with water. *Organic Peroxides*: Materials that, in themselves, are normally unstable and will readily undergo violent chemical change, but will not detonate. These materials may also react violently with water. *Explosives*: Division 1.4 – Explosive substances where the explosive effect are largely confined to the package and no projection of fragments of appreciable size or range are expected. An external fire must not cause virtually instantaneous explosion of almost the entire contents of the package. *Compressed Gases*: Pressurized and meet OSHA definition but < 514.7 psi absolute at 21.1°C (70°F) [500 psig]. *Pyrophorics*: No Rating. *Oxidizers*: Packing Group II Solids: any material that, either in concentration tested, exhibits a mean burning time of less than or equal to the mean burning time of a 2:3 potassium bromate/cellulose mixture and the criteria for Packing Group I are not met. Liquids: any material that exhibits a mean pressure rise time less than or equal to the pressure rise of a 1:1 aqueous sodium chlorate solution (40%)/cellulose mixture and the criteria for Packing Group I are not met. *Unstable Reactives*: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure, but have a low potential for significant heat generation or explosion. Substances that readily form peroxides upon exposure to air or oxygen at room temperature); **3** (*Water Reactivity*: Materials that may form explosive reactions with water. *Organic Peroxides*: Materials that are capable of detonation or explosive reaction, but require a strong initiating source, or must be heated under confinement before initiation; or materials that react explosively with water. *Explosives*: Division 1.2 – Explosive substances that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but do not have a mass explosion hazard. *Compressed Gases*: Pressure ≥ 514.7 psi absolute at 21.1°C (70°F) [500 psig]. *Pyrophorics*: No Rating. *Oxidizers*: Packing Group I Solids: any material that, in either concentration tested, exhibits a mean burning time less than the mean burning time of a 3.:2 potassium bromate/cellulose mixture. Liquids: Any material that spontaneously ignites when mixed with cellulose in a 1:1 ratio, or which exhibits a mean pressure rise time less than the pressure rise time of a 1:1 perchloric acid (50%)/cellulose mixture. *Unstable Reactives*: Substances that may polymerize, decompose, condense or self-react at ambient temperature and/or pressure and have a moderate potential to cause significant heat generation or explosion.); **4** (*Water Reactivity*: Materials that react explosively with water without requiring heat or confinement. *Organic Peroxides*: Materials that are readily capable of detonation or explosive decomposition at normal temperature and pressures. *Explosives*: Division 1.1 & 1.2-explosive substances that have a mass explosion hazard or have a projection hazard. A mass explosion is one that affects almost the entire load instantaneously. *Compressed Gases*: No Rating. *Pyrophorics*: Add to the definition of Flammability "4". *Oxidizers*: No "4" rating. *Unstable Reactives*: Substances that may polymerize, decompose, condense or self-react at ambient temperature and/or pressure and have a high potential to cause significant heat generation or explosion.).

EPAHO103000624

DEFINITIONS OF TERMS (Continued)

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

HEALTH HAZARD: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury).

FLAMMABILITY HAZARD: **0** Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. **1** Materials that must be preheated before ignition can occur. Materials in this degree require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur **2** Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not under normal conditions form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating could release vapor in sufficient quantities to produce hazardous atmospheres with air. **3** Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions. **4** Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and will burn readily.

INSTABILITY HAZARD: **0** Materials that in themselves are normally stable, even under fire conditions. **1** Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures. **2** Materials that readily undergo violent chemical change at elevated temperatures and pressures. **3** Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction, but that require a strong initiating source or that must be heated under confinement before initiation. **4** Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures.

FLAMMABILITY LIMITS IN AIR: Much of the information related to fire and explosion is derived from the **N**ational **F**ire **P**rotection **A**ssociation (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, and **LDo**, or **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **Cancer Information:** The sources are: **IARC** - the International Agency for Research on Cancer; **NTP** - the National Toxicology Program, **RTECS** - the Registry of Toxic Effects of Chemical Substances, **OSHA** and **CAL/OSHA**. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. **Other Information:** **BEI** - ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

ECOLOGICAL INFORMATION:

EC is the effect concentration in water. **BCF** = Bioconcentration Factor, which is used to determine if a substance will concentrate in lifeforms which consume contaminated plant or animal matter. **TL_m** = median threshold limit; Coefficient of Oil/Water Distribution is represented by **log K_{ow}** or **log K_{oc}** and is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

U.S. and CANADA:

ACGIH: American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. **O**ccupational **S**afety and **H**ealth **A**dministration (**OSHA**). **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act **(SARA)**; the Canadian Domestic/Non-Domestic Substances List **(DSL/NDSL)**; the U.S. Toxic Substance Control Act **(TSCA)**; Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act **(CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings which appear on the material's package label. **OSHA** - U.S. Occupational Safety and Health Administration.

EUROPEAN and INTERNATIONAL:

The DFG: This is the Federal Republic of Germany's Occupation Health Agency, similar to the U.S. OSHA. **EU** is the European Union (formerly known as the **EEC,** European Economic Community). **EINECS:** This is the European Inventory of Now-Existing Chemical Substances. The **ARD** is the European Agreement Concerning the International Carriage of Dangerous Goods by Road and the **RID** are the International Regulations Concerning the Carriage of Dangerous Goods by Rail. **AICS** is the Australian Inventory of Chemical Substances. **MITI** is the Japanese Minister of International Trade and Industry

EPAHO103000625

Williams Brothers Construct ~~2298~~
2298

EPAHO10300626

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/22/2007**

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 # 2298

Generator: Williams Brothers Construction
Address: 1550 West Freeway
Vidor, TX 77662

Waste Information

Name of Waste: Recyclable hydrocarbon and water mixture
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Diesel and solids removed from unused diesel tanks, water from pressure washing a conntainment area
Color: varies **Odor:** diesel **pH:** 4-7
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:	Williams Brothers		
Address:	1550 West Freeway		
City, State, Zip:	Vidor, TX 77662		
Contact:	Zac	**Title:**	Agent for Williams Brothers
Phone No:	281-541-4829	**Fax No:**	936-756-1226
24/hr Phone:	281-541-4829		
U.S. EPA I.D. No:	Na		
State I.D.	Na	**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:	Tracy Fisher	**Title:**	AR
Phone No:	936-483-3662	**Fax No:**	936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: Recycleable Hydrocarbon and Water Mixture
Detailed Description of Process Generating Waste: Diesel and Solids removed form unused diesel tanks, water from pressure washing a containment area.

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

Color: Varies **Odor:** Diesel

Specific Gravity (water=1): .8-1 **Density:** 7.5-8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐	Drum	☐	Tote	☒	Truck	☐ Other (explain)
Container Size:		____		____		1-2000	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Recyclable Hydrocarbon and Water Mixture
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >160	**pH** 4-7	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 5-10%
Oil&Grease >500000mg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

AUG-17-2007 12:39 CES Environmental Service 713 676 1676 P.02

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Water	10-50	%
Low Sulfur Deisel	50-75	%
Solids	5-10	%

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: 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:** 8/17/07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-20-07 (Approved) Rejected

Approval Number: 2298

Process Facility Information:
Trans Small Air Mover $90/hr
Recy. 19/g $200 min
$200/min
Includes up to 5% solids
charge Addl. .06/gal for each 5% solids

AUG-17-2007 12:39 CES Environmental Service 713 676 1676 P.03

EPAHO103000629

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

AUG-17-2007 12:39 CES Environmental Service 713 676 1676 P.04

EPAHO103000630

(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.

SHAWCOR PIPE PROTECTION 2299

2299

EPAHO10300632

7 E
LAB
T-34
8-4-04

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/22/2007**

Dear **Kevin Rice**

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 # 2299

Generator: Shawcor Pipe Protection/Compression Coat
Address: 719 Shields
Channelview, TX 77530

Waste Information

Name of Waste: Non hazardous waste glue
TCEQ Waste Code #: 00049022
Container Type:
Detailed Description of Process Generating Waste:
Unused glue (non-solvent based) in 5 gallon buckets solidified
Color: white **Odor:** none **pH:** 4-10
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.

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:	Shawcor Pipe Protection		
Address:	719 Shields		
City, State, Zip:	Channelview, TX 77530		
Contact:	Angie Molis	Title:	HSE
Phone No:	281-485-8321	Fax No:	281-485-2657
24/hr Phone:	713-922-5022		
U.S. EPA I.D. No:	NA		
State I.D.	87513	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Shawcor Pipe Protection		
Address:	3838 N Sam Houston PKW East Suite 300		
City, State, Zip:	Houston, TX 77032		
Contact:	Kevin Rice	Title:	Corp HSE Manager
Phone No:	832-607-5459	Fax No:	281-886-2351

SECTION 3: General Description of the Waste

Name of Waste: Non Hazardous Waste Glue
Detailed Description of Process Generating Waste: Unused glue (Non-Solvent Based) in 5 gallon buckets solidified.

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

Color: White Odor: None

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

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: 3 buckets/Drum ____ ____ 5 gal Buckets

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 8-10 Other: ____
Texas State Waste Code No: 00049022
Proper U.S. DOT Shipping Name: Non-RCRA Waste Glue
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-10	0mg/l	0mg/l	0-100%

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

EPAHO103000635

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Unused Glue	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.
TCLP Metals

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: 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: Angela Molis **Date:** 8/20/07

Printed Name/Title: Angela Molis
HSE Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	Class 2 shred solids box 05
Date: 8-22-07 Approved Rejected	$25/cm
Approval Number: 2299	

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

EPAHO103000637

(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.

EPAHO103000638

LABORATORY ANALYSIS REPORT

A & B Environmental Services, Inc.
10100 East Freeway, Suite 100
Houston, TX 77029

Report Date: 10/31/2006
Total No. Pages: 10

Client Project ID

Shawcor Pipe Protection - Conroe
Attn: Rick Cheatheam
3705 N.Frazier
Conroe, Texas 77303

Client PO #:
Date Received: 10/20/2006 15:38
Collected by: Rick Cheatheam

A & B Labs has analyzed the following samples . . .

Your Sample ID	Job ID
Sh-CON-100205-SW-01	85172-01
Sh-CON-100206-W-01	85172-02

Thank you for choosing A & B Labs.

Approved By: Jennifer Bishop Date: 10/31/2006

Title: Project Manager

This report cannot be reproduced, except in full, without prior written permission of A & B Labs. Results shown relate only to the items tested.

LABORATORY TEST RESULTS

A&B Job ID 85172 Date: 10/31/2006

CUSTOMER: Shawcor Pipe Protection - Conroe PROJECT: ATTN: Rick Cheatham

Customer Sample ID: Sh-CON-100206-SW-01
Date Collected: 10/2/2006
Time Collected:
Sample Loc./Other Info:

Job Sample ID: 85172-01
Sample Matrix: Water

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
EPA 200.7	**Total Metals**									
	Arsenic	BRL	mg/L	1	0.01			10/23	18:47	SEC
	Barium	0.05	mg/L	1	0.01			10/23	18:47	SEC
	Cadmium	BRL	mg/L	1	0.01			10/23	18:47	SEC
	Chromium	BRL	mg/L	1	0.01			10/23	18:47	SEC
	Copper	0.02	mg/L	1	0.01			10/23	18:47	SEC
	Lead	0.02	mg/L	1	0.01			10/23	18:47	SEC
	Manganese	0.07	mg/L	1	0.01			10/23	18:47	SEC
	Nickel	BRL	mg/L	1	0.01			10/23	18:47	SEC
	Selenium	BRL	mg/L	1	0.05			10/23	18:47	SEC
	Silver	0.01	mg/L	1	0.01			10/23	18:47	SEC
	Zinc	0.47	mg/L	1	0.01			10/23	18:47	SEC
EPA 245.1	**Total Mercury**									
	Mercury	BRL	mg/L	1	0.002			10/23	17:30	SEC

** BRL - Below Reporting Limit
D1-Sample diluted due to matrix effects.

LABORATORY TEST RESULTS

A&B Job ID 85172 Date: 10/31/2000

CUSTOMER: Shawcor Pipe Protection - Conroe PROJECT: ATTN: Rick Cheatham

Customer Sample ID: Sh-CON-100206-W-01
Date Collected: 10/2/2006
Time Collected:
Sample Loc./Other Info:

Job Sample ID: 85172-02
Sample Matrix: Liquid

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010B	**TCLP Metals**								
	Arsenic	BRL	mg/l	1	0.1	1.8		10/24 13:11	SEC
	Barium	0.16	mg/L	1	0.1	100		10/24 13:11	SEC
	Cadmium	BRL	mg/L	1	0.1	0.5		10/24 13:11	SEC
	Chromium	BRL	mg/L	1	0.1	6		10/24 13:11	SEC
	Lead	BRL	mg/L	1	0.1	1.5		10/24 13:11	SEC
	Selenium	BRL	mg/L	1	0.5	1		10/24 13:11	SEC
	Silver	BRL	mg/L	1	0.1	5		10/24 13:11	SEC
SW-846 7470A	**TCLP Mercury**								
	Mercury	BRL	mg/L	1	0.002	0.2		10/24 14:34	SEC
SW-846 8260B	**TCLP Volatiles**								
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6		10/24 12:28	YZ
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5		10/24 12:28	YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		10/24 12:28	YZ
	Benzene	BRL	mg/L	1	0.13	0.5		10/24 12:28	YZ
	Carbon Tetrachloride	BRL	mg/L	1	0.13	0.5		10/24 12:28	YZ
	Chlorobenzene	BRL	mg/L	1	0.15	70		10/24 12:28	YZ
	Chloroform	BRL	mg/L	1	1.25	6		10/24 12:28	YZ
	MEK (2-Butanone)	BRL	mg/L	1	2.5	200		10/24 12:28	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7		10/24 12:28	YZ
	Trichloroethylene	BRL	mg/L	1	0.13	0.5		10/24 12:28	YZ
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2		10/24 12:28	YZ
SW-846 8270C	**TCLP Semi-Volatiles**								
	1,4-Dichlorobenzene	BRL	mg/L	8	0.4	7.5	D1	10/24 20:58	WH
	2,4-Dinitrotoluene	BRL	mg/L	8	0.4	0.13		10/24 20:58	WH
	Hexachlorobenzene	BRL	mg/L	8	0.4	0.13		10/24 20:58	WH
	Hexachlorobutadiene	BRL	mg/L	8	0.4	0.4		10/24 20:58	WH
	Hexachloroethane	BRL	mg/L	8	0.4	3		10/24 20:58	WH
	2-Methylphenol	BRL	mg/L	8	0.4	200		10/24 20:58	WH
	3- & 4-Methylphenols	BRL	mg/L	8	0.4	200		10/24 20:58	WH
	Nitrobenzene	BRL	mg/L	8	0.4	2		10/24 20:58	WH
	Pentachlorophenol	BRL	mg/L	8	10	100		10/24 20:58	WH
	Pyridine	BRL	mg/L	8	0.4	4		10/24 20:58	WH
	2,4,5-Trichlorophenol	BRL	mg/L	8	0.4	400		10/24 20:58	WH
	2,4,6-Trichlorophenol	BRL	mg/L	8	0.4	2		10/24 20:58	WH

** BRL - Below Reporting Limit
D1-Sample diluted due to matrix effects.

EPAHO103000641

A & B Environmental Services, Inc.
10100 East Freeway, Suite 100
Houston, Texas 77029

SAMPLE SURROGATE RECOVERY REPORT

Report Date: 10/31/2006

Job ID: 85172

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	105.7	1	106	70-130	10/24/06 12:28	Yzhang	85172-02	
Toluene-d8 (Surrogate)	SW-846 8260B	2037-26-5	100	104.1	1	104	70-130			85172-02	
p-Bromofluorobenzene (Surrogate)	SW-846 8260B	460-00-4	100	116.4	1	116	70-130			85172-02	
1,2-Dichloroethane-d4 (Surrogate)	SW-846 8260B	107-06-2	100	109.3	1	109	70-130			85172-02	
2-Fluorophenol (Surrogate)	SW-846 8270C	367-12-4	100	63.7	8	63.7	20-115	10/24/06 20:58	Whuimei	85172-02	
Phenol-d6 (Surrogate)	SW-846 8270C	13127-88-3	100	67.9	8	67.9	15-120			85172-02	
Nitrobenzene-d5 (Surrogate)	SW-846 8270C	4165-60-0	100	78.3	8	78.3	20-120			85172-02	
2-Fluorobiphenyl (Surrogate)	SW-846 8270C	321-60-8	100	76.8	8	76.8	30-115			85172-02	
2,4,6-Tribromophenol (Surrogate)	SW-846 8270C	118-79-6	100	110.7	8	111	10-120			85172-02	
Terphenyl-d14 (Surrogate)	SW-846 8270C	1718-51-0	100	61.2	8	61.2	30-140			85172-02	

EPAHO10300642

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 10/31/2006

Job ID: 85172

QCType: LCS and LCSD

Parameter	Method	Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	%RPD CLimits	%Rec CLimits	QCBatchID	Qual
Arsenic	EPA 200.7	1	0.97	0.97	97	97	0.0	<25	80-120	Q102306ml	
Barium	EPA 200.7	1	0.96	0.96	96	96	0.0	<20	80-120	Q102306ml	
Cadmium	EPA 200.7	1	0.96	0.97	96	97	1.0	<20	80-120	Q102306ml	
Chromium	EPA 200.7	1	0.96	0.96	96	96	0.0	<20	80-120	Q102306ml	
Lead	EPA 200.7	1	0.97	0.97	97	97	0.0	<30	80-120	Q102306ml	
Selenium	EPA 200.7	1	0.98	0.98	98	98	0.0	<30	80-120	Q102306ml	
Silver	EPA 200.7	1	0.95	0.96	95	96	1.0	<20	80-120	Q102306ml	
Copper	EPA 200.7	1	0.96	0.96	96	96	0.0	<25	80-120	Q102306mlcu	
Manganese	EPA 200.7	1	0.96	0.97	96	97	1.0	<25	80-120	Q102306mlmn2	
Nickel	EPA 200.7	1	0.96	0.97	96	97	1.0	<25	80-120	Q102306mlni	
Zinc	EPA 200.7	1	0.97	0.97	97	97	0.0	<25	80-120	Q102306mlzn	
Mercury	EPA 245.1	0.005	0.0051		102			<35	80-120	Q102306hgl2	
Arsenic	SW-846 6010B	1	0.96	1.02	96	102	6.1	<30	80-120	Q102406ml	
Barium	SW-846 6010B	1	0.91	0.96	91	96	5.3	<25	80-120	Q102406ml	
Cadmium	SW-846 6010B	1	0.92	0.98	92	98	6.3	<25	80-120	Q102406ml	
Chromium	SW-846 6010B	1	0.91	0.97	91	97	6.4	<25	80-120	Q102406ml	
Lead	SW-846 6010B	1	0.88	0.92	88	92	4.4	<25	80-120	Q102406ml	
Selenium	SW-846 6010B	1	0.97	1.02	97	102	5.0	<25	80-120	Q102406ml	
Silver	SW-846 6010B	1	0.92	0.98	92	98	6.3	<25	80-120	Q102406ml	
Mercury	SW-846 7470A	0.005	0.005		100			<35	71-143	Q102403hgt	
1,1-Dichloroethylene	SW-846 8260B	0.5	0.503		101			<35	70-125	q102406voc1a	
Benzene	SW-846 8260B	0.5	0.523		105			<35	70-125	q102406voc1a	
Trichloroethylene	SW-846 8260B	0.5	0.524		105			<35	70-125	q102406voc1a	
Chlorobenzene	SW-846 8260B	0.5	0.462		92.4			<35	70-125	q102406voc1a	

** BRL-Below Reporting Limit

07/30/2006 23:26 2814915458 U

EPAHO10300643

A & B Environmental Services, Inc.
10100 East Freeway
Houston, Texas 77029

QUALITY CONTROL CERTIFICATE

Report Date: 10/31/2006

Job ID: 85172

QCType: LCS and LCSD

Parameter	Method		Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	%RPD CLimits	%Rec CLimits	QCBatchID		Qual
Pyridine	SW-846 8270C		0.25	0.0839	0.0835	33.6	33	0.5	<35	6-112	q102406sv2b		
2-Methylphenol	SW-846 8270C		0.25	0.1362	0.1402	54.5	56	2.9	<35	6-132	q102406sv2b		
Hexachloroethane	SW-846 8270C		0.25	0.1484	0.1489	59.4	60	0.3	<35	14-136	q102406sv2b		
3- & 4-Methylphenols	SW-846 8270C		0.5	0.2592	0.2624	51.8	52	1.2	<35	29-132	q102406sv2b		
Nitrobenzene	SW-846 8270C		0.25	0.1793	0.1882	71.7	75	4.8	<35	48-146	q102406sv2b		
Hexachlorobutadiene	SW-846 8270C		0.25	0.1490	0.1478	59.6	59	0.8	<35	20-124	q102406sv2b		
2,4,6-Trichlorophenol	SW-846 8270C		0.25	0.2165	0.2204	86.6	88	1.8	<35	40-138	q102406sv2b		
2,4,5-Trichlorophenol	SW-846 8270C		0.25	0.1941	0.1942	77.6	78	0.1	<35	6-115	q102406sv2b		
Hexachlorobenzene	SW-846 8270C		0.25	0.2054	0.2006	82.2	80	2.4	<35	44-142	q102406sv2b		
1,4-Dichlorobenzene	SW-846 8270C		0.25	0.1447	0.1506	57.9	60	4.0	<35	24-134	q102406sv2b		
2,4-Dinitrotoluene	SW-846 8270C		0.25	0.2016	0.2142	80.6	86	6.1	<35	32-114	q102406sv2b		

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
Arsenic	EPA 200.7	BRL	1	0.99	1.01	99	101	2.0	<25	59-126	Q102306ml	85172-01	
Barium	EPA 200.7	0.05	1	1.03	1.04	98	99	1.0	<20	60-119	Q102306ml	85172-01	
Cadmium	EPA 200.7	BRL	1	0.96	0.98	96	98	2.1	<20	69-115	Q102306ml	85172-01	
Chromium	EPA 200.7	BRL	1	0.99	0.99	99	99	0.0	<20	60-122	Q102306ml	85172-01	
Lead	EPA 200.7	0.02	1	0.98	0.99	96	97	1.0	<36	50-122	Q102306ml	85172-01	
Selenium	EPA 200.7	BRL	1	0.97	1.00	97	100	3.0	<30	57-125	Q102306ml	85172-01	
Silver	EPA 200.7	0.01	1	0.94	0.95	93	94	1.1	<20	35-135	Q102306ml	85172-01	
Copper	EPA 200.7	0.02	1	1.04	1.05	102	103	1.0	<25	55-139	Q102306mlcu	85172-01	
Manganese	EPA 200.7	0.07	1	1.06	1.08	99	99	0.0	<25	70-130	Q102306mlmn2	85172-01	
Nickel	EPA 200.7	BRL	1	0.98	0.99	98	99	1.0	<25	49-131	Q102306mlni	85172-01	
Zinc	EPA 200.7	0.47	1	1.49	1.53	102	106	3.8	<25	65-135	Q102306mlzn	85172-01	
Mercury	EPA 245.1	BRL	0.005	0.0054	0.0051	108	102	5.7	<35	80-120	Q102306hgl2	85149-03	

** BRL-Below Reporting Limit

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EPAHO10300644

********** -IND. XMT JOURNAL- ********** DATE AUG-20-2007 ***** TIME 15:51 ********

DATE/TIME = AUG-20-2007 15:49

JOURNAL No. = 116

COMM. RESULT = OK

PAGE(S) = 011

DURATION = 00:01:15

FILE No. = 125

MODE = MEMORY TRANSMISSION

DESTINATION = 2814855638

RECEIVED ID = / 2814855652

RESOLUTION = STD

-CES Environmental Service-

***** DP-3010 ********** - - ***** - 713 676 1676- *********

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 13

Date: 08/16/07

To: Angie Melis

713-485-2657

From: **Dan Bowman**
CES Environmental Services, Inc.
Mobile Phone: (713) 854-6150

Notes: Angie,

Please review, sign, & Return.

Dan

TRIMAC TRANSPORTOR (2284)

EPAHO10300647

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Tracy Carrol**

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 # 2284

Generator: Trimac Transporters @ National Casein Company
Address: 13039 Gaut Avenue
Tyler, TX 75708

Waste Information

Name of Waste: Recyclable hydrocarbon and water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Cleaning out of tank last containing naphthalene and vinyl acetate
Color: dark **Odor:** naphthalene **pH:** neutral
Physical State:
Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:
standard

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:	Trimac Transporters @ National Casein Company		
Address:	13039 Gaut Avenue		
City, State, Zip:	Tyler, TX 75708		
Contact:	Nijal Martin	**Title:**	
Phone No:	903-877-3443	**Fax No:**	
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:	Trimac Transporters		
Address:	13301 Bay Park Road		
City, State, Zip:	Pasadena, TX 77507-1112		
Contact:	Khevin Brewer	**Title:**	Operations Manager
Phone No:	281-474-5674	**Fax No:**	281-474-5376

SECTION 3: General Description of the Waste

Name of Waste: Recyclable hydrocarbon and water
Detailed Description of Process Generating Waste: cleaning out of tank last containing naphthalene and vinyl acetate

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

Color: dark **Odor:** naphthalene

Specific Gravity (water=1): 0.9-1 **Density:** 8.25-8.34

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

Container Type:	☐	**Drum**	☒	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		____		350 gal	____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2 **Other:** one time
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Flammable Liquids, n.o.s.
Class: 3 **UN/NA:** 1993 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	neutral	0mg/l	0mg/l	0-2%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	6500-7000mg/l	0mg/l	0mg/l	0mg/l

EPAHO103000649

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	40-60	%
Naphthalene	30-40	%
Vinyl Acetate	5-10	%

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: 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: Khevin Brewer **Date:** 8-14-07

Printed Name/Title: Khevin Brewer /Operations Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Barbara Thompson Date: 8-14-07 (Approved) Rejected Approval Number: 2284	**Process Facility Information:** separate water phase and product phase mix product phase with lightends, treat water phase $175/ton REC

EPAHO103000650

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

EPAHO103000651

(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.

EPAHO103000652

5501 Baker Road Baytown, Texas 77520
Baytown, Texas 77522 281/424-4505 FAX 281/424-3532

ADVANCED AROMATICS, L.P.

MATERIAL SAFETY DATA SHEET

Chemical Name: Petroleum Distillates	
Chemical Family: Petroleum Hydrocarbon	
Trade Name: **C-700 Overhead, ADVASOL 150 and ADVASOL 150E** (7% max. naphthalene)	
Synonyms: Aromatics Solvent, Wash Oil	
Revision Date: August 09, 2006, replaces previous version dated July 05, 2006	
Manufacturer /Distributor: Advanced Aromatics, L.P. 5501 Baker Road Baytown, TX 77520	
EMERGENCY CONTACT: (281) 424-4505	24 hour number: (281)424-9566 Chemtrec: (800) 424-9300

The following chemical components have been determined to be hazardous under OSHA's Hazard Communication Std. 29 CFR 1910.1200, and are listed in Table Z-1 1910.1000 (Toxic and Hazardous Substances).

CAS No.	Material or Component	Percentage
91-20-3	Naphthalene	14% Maximum
64742-94-5	Heavy aromatic petroleum naptha	84% - 94%

Specific Gravity: .95-.98 @ 60°F	Boiling Point: 400°F
Vapor Density (Air=1): 4.9	Freezing Point: -35°F
Vapor Pressure (PSIA): <1 @ 100°F	Evaporation Rate (Butyl Acetate =1):<1.0
Solubility In Water at 1ATM & 25°C: NEGLIGIBLE	Viscosity: 2cst @ 100°F

Physical Description: Dark brown/green liquid with an aromatic odor.

Flash Point: >150 °F (PMCC)		
Flammable Limits in Air % by Volume:	Lower: 1.9	Upper: 6.8
Extinguishing Media: Use water, foam, carbon dioxide or dry chemical.		
Special Fire Fighting Procedures: Wear complete personal protective equipment. SCBA required.		
Unusual Fire and Explosion Hazard: None Known.		

For "Disclaimer of Liability", see the statement on Page 5.

EPAHO103000653

Stability: Product is stable under normal storage conditions.

Conditions to Avoid: Extreme heat. Avoid contact with strong oxidizers (e.g. Chlorine, Peroxides, etc.) Toxic fumes and heat can be generated.

Incompatibility: Strong Oxidizers

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products When Heated: CO and CO2 may be formed in the event of combustion. Toxic fumes may be formed during combustion.

NFPA 704 Rating: 0 – Insignificant 1 – Slight 2 - Moderate 3 - High 4 – Extreme

Health: 2 Flammability: 2 Reactivity: 1 Special Hazard: None Personal Protection: B

Symptoms of Exposure:
This is a combustible liquid that should be kept away from ignition sources. The product may cause skin irritation from prolonged exposure. Avoid breathing vapors, prolonged exposure could cause irritation to the respiratory system. Avoid contact when possible and use personnel equipment while handling this material. Use only in properly ventilated areas. Keep all containers closed when not in use. Empty containers will still contain residue, and should not be reused.

Health Effects:
ACUTE – Inhalation of high concentrations can cause nausea, dizziness, vomiting, disorientation, or unconsciousness.
CHRONIC – Prolonged skin contact can cause dry skin and defatting, resulting in irritation or dermatitis.

Ingestion: Do not take internally. Seek medical attention if exposure occurs.

Skin: Exposure may irritate skin. Wash skin thoroughly for 15 minutes if contact occurs.

Inhalation: Inhalation of vapors may cause irritation to lungs.

Eyes: May cause eye irritation. Seek medical attention if exposure occurs.

Special Medical Conditions Aggravated by Exposure: None known.

Primary Route of Entry: Skin contact.

Exposure Limits: None Established
Petroleum Distillate TLV – 500PPM (2000 mg/m3) / Naphthalene TLV – 10 ppm (50 mg/m3)

Carcinogen Status: Not listed on (NTP) National Toxicology Program "Annual Report on Carcinogens", or (IARC) Intl. Agency for Research on Cancer "Monographs", and is not classified by OSHA as a carcinogen. NTP studies TR-410 and TR-500 show evidence of increased tumor growth in rodents based upon exposure to Naphthalene.

Toxicity: At this time there are no toxicity studies that exist for this product.

Ingestion: Do not induce vomiting. Contact physician.

Skin: Remove soiled clothing and wash with soap and water. Contact physician. If irritation persists, contact physician.

Inhalation: Remove from area. If breathing irregular, administer oxygen.

EPAHO103000654

Eyes: Flush eyes with water for at least 15 minutes. Contact physician.

In Case of a Transportation Accident, Contact CHEMTREC at 1-800/424-9300.

IN CASE OF SPILLS OR RELEASE: For small spill, use solid absorbent and shovel into disposal into disposal container. For large spills, dike the area to facilitate salvage or disposal. Shut off ignition sources and avoid breathing vapors. Avoid runoff into sewers and advise authorities.

Refer to DOT NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK for handling information.

Waste Disposal Method: Waste material should be disposed of consistent with federal, state, and local regulations. See Regulatory information below.

Diaposal: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the RCRA 40 CFR 261, since it does not have the characteristics of Subpart C, nor is listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (sand, fly ash, or cement), so that no free standing liquids remain before disposal into an industrial landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

Respiratory Protection: Have appropriate NIOSH approved respirator available. Organic cartridge respirator recommended.

Gloves: Impermeable gloves such as rubber, neoprene, PVC, viton, etc.

Eyes: Chemical splash goggles or faceshield. Eyewash facilities should be available in the area.

Ventilation: General use of local exhaust as required to control exposure.

Storage and Handling: Product should be stored away from source of ignition, or oxidizing agents. Prevent skin contact.

The proper shipping name / hazard class may vary by packaging, properties, and mode of transportation.

Proper shipping names are:

ALL TRANSPORTATION MODES: (Unless Specified Below)	Petroleum Distillates, N.O. S.
UN/ID No.:	UN 1268
HAZARD CLASS :	3 – Combustible liquid
PACKING GROUP:	III
CARGO AIRCRAFT LIMIT:	220L
PASSENGER AIRCRAFT LIMIT:	60L
TECHNICAL NAME(s):	Naphthalene, Methylnaphthalene(s)
RQ LBS. (Per pkg.):	700 Lbs. (at 14% Naphthalene in Advasol 150)
RQ COMPONENTS (s):	Naphthalene (100 lbs. Require reporting)
FLASH POINT:	150 Deg F
AIR TRANSPORATION: (IATA / ICAO)	Petroleum Distillates, N.O. S

For "Disclaimer of Liability", see the statement on Page 5.

EPAHO103000655

UN/ID No.:	UN1268
HAZARD CLASS :	3
PACKING GROUP:	III
CARGO AIRCRAFT LIMIT:	No Limit
PASSENGER AIRCRAFT LIMIT:	No Limit
MARINE TRANSPORTATION: (IMDG / IMO)	Petroleum Distillates, N.O. S.
UN/ID No.:	UN 1268
HAZARD CLASS :	3
PACKING GROUP:	III
MARINE POLLUTANT (s):	None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CRF372.

CAS No.	Material or Component	% by Weight
91-20-3	Naphthalene	14% maximum
64742-94-5	Heavy aromatic petroleum naphtha	84%-94%

THE FOLLOWING FEDERAL REGULATIONS APPLY TO THIS PRODUCT:

OSHA HAZARD COMMUNICATION STD: 29 CFR 1910.1200 and 29 CFR 1910.1000 Table Z-1, Z-2, and Z-3.

Based on our hazard evaluation, the following components in this product are hazardous and the reasons are listed.

HEAVY AROMATIC NAPHTHA – Combustible, skin irritant.

NAPHTHALENE – Eye irritant

NAPHTHALENE – OSHA – 10ppm (50mg/m3) TWA for 8 hour workday, STEL = 15ppm (75 mg/m3).
ACGIH – 10ppm (52mg/m3) TWA for 8 hour workday, STEL = 15ppm (79 mg/m3).

CERCLA, 40 CFR 117,302: This product contains naphthalene, a reportable quantity (RQ) substance. The RQ for Naphthalene is 100 lbs. If a spill of Advasol 150 contains 100 or more pounds of Naphthalene, it requires notification to the National Response Center, Washington D.C. (1-800-424-8802). There may also be state and local requirements to report spills.

SARA TITLE III Section 302 - This product does not contain any components regulated under SARA TITLE III, Section 302 (Extremely Hazardous Substance).

Section 311, 312 - (MSDS Information) 40 CFR 370, This product has been determined to be hazardous, and should be reported under the following EPA hazard categories:

--xx--immediate (acute) health hazard
-------Delayed (chronic) health hazard
--xx--Fire Hazard
-------Sudden release of pressure hazard
-------Reactive hazard

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Section 313 -This product contains the following component subject to regulation under SARA TITLE III, Section 313: Naphthalene

TOXIC SUBSTANCE CONTROL ACT (TSCA): The components in this product are on the TSCA inventory.

RESOURCE CONSERVATION and RECOVERY ACT (RCRA): Naphthalene is subject to regulation under 40 CFR 261

For "Disclaimer of Liability", see the statement on Page 5.

EPAHO103000656

40 CFR 261 Subpart C & D. The hazardous waste code for naphthalene is U165.

CLEAN WATER ACT (CWA): Naphthalene is subject to regulation under sections 307 and 311 of the CWA.

CLEAN AIR ACT (CAA): Naphthalene is a listed "Hazardous air pollutant (HAP)" under Section 112 of the CAA.

STATE REGULATIONS:

California Proposition 65: Benzene, known to California to cause cancer, may be present as an impurity or residue.

Michigan Critical Materials : This product contains the following ingredient(s) identified on the Michigan Critical Materials Register:

Naphthalene

State Right to Know Laws: The following ingredient(s) are disclosed for compliance with state right to know laws:

METHYLNAPHTHALENE(S)	91-12-0
NAPHTHALENE(S)	91-20-3

INTERNATIONAL REGULATIONS: This product is a WHMIS controlled product under the House of Commons of Canada Bill C-70 (class B3 and class D2A). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on it's toxicological properties, to contain the following hazardous ingredient(s):

HEAVY AROMATIC PETROLEUM NAPTHA	64742-94-5	84%-94%
NAPHTHALENE	91-20-3	14% maximum

ALL INFORMATION ON THIS MSDS MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

This information is provided for the customers of Advanced Aromatics; however, it does not address in detail the use, storage or handling of the product. Users of the product, considering their use, storage or handling of the product, may need to develop additional procedures. The information should not be relied on to insure compliance by the customer with any federal, state or local legal requirements. Information provided herein, are not product specifications.

For "Disclaimer of Liability", see the statement on Page 5.

EPAHO103000657

TRIMAC TRANSPORTOR (2285)

EPAHO10300658

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Tracy Carrol**

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 # 2285

Generator: Trimac Transporters @ National Casein Company
Address: 13039 Gaut Avenue
Tyler, TX 75708

Waste Information

Name of Waste: Spent absorbent pads
TCEQ Waste Code #: CESQ3101
Container Type:
Detailed Description of Process Generating Waste:

Color: varies **Odor:** fruity **pH:** na
Physical State:
Incompatibilities: amines, ammonia, peroxides, strong aciids, strong bases, strong oxidizers, avoid contact with - zinc, copper alloys, galvanized metals, peroxides
Safety Related Data/Special Handling:
Standard

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:	Trimac Transporters @ National Casein Company		
Address:	13039 Gaut Avenue		
City, State, Zip:	Tyler, TX 75708		
Contact:	Nijal Martin	**Title:**	
Phone No:	903-877-3443	**Fax No:**	
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:	Trimac Transporters		
Address:	13301 Bay Park Road		
City, State, Zip:	Pasadena, TX 77507-1112		
Contact:	Khevin Brewer	**Title:**	Operations Manager
Phone No:	281-474-5674	**Fax No:**	281-474-5376

SECTION 3: General Description of the Waste

Name of Waste: Spent absorbent pads
Detailed Description of Process Generating Waste: absorbent pads used to clean up spill from tank

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

Color: varies **Odor:** fruity

Specific Gravity (water=1): 0.9-1 **Density:** 8.25-8.34

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:** one time
Texas State Waste Code No: CES3101
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
NA	NA	0mg/l	0mg/l	100%

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

EPAHO103000660

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Absorbent pads	100	%
Vinyl Acetate	trace	

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):
amines, ammonia, peroxides, strong acids, strong bases, strong oxidizers, avoid contact with - zinc, copper alloys, galvanized metals, peroxides

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: Khevin Brewer **Date:** 8-14-07

Printed Name/Title: Khevin Brewer / Operations Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:** $65.00/drum IS
Compliance Officer: Robbin Blanchard Date: 8-14-07 (Approved) Rejected Approval Number: 2285	

EPAHO103000661

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

EPAHO103000662

(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.

EPAHO103000663

2286

Trimac Transporters

EPAHO10300064

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Tracy Carrol**

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 # 2286

Generator: Trimac Transporters @ National Casein Company
Address: 13039 Gaut Avenue
Tyler, TX 75708

Waste Information

Name of Waste: Recyclable light ends
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Removal of remaining product in tank and cleaning up product from leak
Color: colorless **Odor:** fruity **pH:** na
Physical State:
Incompatibilities: amines, ammonia, peroxides, strong acids, strong bases, strong oxidizers, avoid contact with - zinc, copper alloys, galvanized metals, peroxides
Safety Related Data/Special Handling:
standard

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:	Trimac Transporters @ National Casein Company		
Address:	13039 Gaut Avenue		
City, State, Zip:	Tyler, TX 75708		
Contact:	Nijal Martin	**Title:**	
Phone No:	903-877-3443	**Fax No:**	
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:	Trimac Transporters		
Address:	13301 Bay Park Road		
City, State, Zip:	Pasadena, TX 77507-1112		
Contact:	Khevin Brewer	**Title:**	Operations Manager
Phone No:	281-474-5674	**Fax No:**	281-474-5376

SECTION 3: General Description of the Waste

Name of Waste: Recyclable light ends
Detailed Description of Process Generating Waste: removal of remaining product in tank and cleaning up product from leak

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

Color: colorless **Odor:** fruity

Specific Gravity (water=1): 0.9-1 **Density:** 8.25-8.34

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

Container Type:	☐	**Drum**	☒	**Tote**	☐	**Truck**	☐ **Other (explain)**
Container Size:		____		350 gal		____	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2 **Other:** one time
Texas State Waste Code No: Product
Proper U.S. DOT Shipping Name: Vinyl Acetate, Stablalized
Class: 3 **UN/NA:** UN1301 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
-4	NA	0mg/l	0mg/l	5-10%

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

EPAHO103000666

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Vinyl Acetate	90-95	%
Dirt, debris	5-10	%

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):
amines, ammonia, peroxides, strong acids, strong bases, strong oxidizers, avoid contact with - zinc, copper alloys, galvanized metals, peroxides

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: Khevin Brewer **Date:** 8-14-07

Printed Name/Title: Khevin Brewer / Operations Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Boyd

Date: 8-14-07 Approved Rejected

Approval Number: 2285

Process Facility Information: Pull off product
Mix with lightends
$175/tote REC

EPAHO103000667

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

EPAHO103000668

(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.

EPAHO103000669

Material Safety Data Sheet

The Dow Chemical Company

Product Name: Vinyl Acetate, 3-5 PPM HQ

Issue Date: 06/17/2005
Print Date: [illegible]

The Dow Chemical Company encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. Product and Company Identification

Product Name
[redacted]

COMPANY IDENTIFICATION
The Dow Chemical Company
2030 Willard H. Dow Center
Midland, MI 48674
USA

JAN 11 2007

Customer Information Number: 800-258-2436

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: 989-636-4400

2. Hazards Identification

Emergency Overview
Color: Colorless
Physical State: Liquid
Odor: Fruity
Hazards of product:

WARNING! Flammable liquid and vapor. Causes eye irritation. Causes skin irritation. May be harmful if inhaled. Elevated temperatures can cause hazardous polymerization. Vapors may travel a long distance; ignition and/or flash back may occur. Vapor explosion hazard. Eliminate ignition sources. Isolate area. Keep upwind of spill. Stay out of low areas. Warn public of downwind explosion hazard.

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects
Eye Contact: May cause severe eye irritation. May cause severe corneal injury. Vapor may cause eye irritation experienced as mild discomfort and redness.
Skin Contact: Prolonged contact may cause severe skin irritation with local redness and discomfort. May cause rash or blisters.

EPAHO103000670

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.
Skin Sensitization: Skin contact may cause an allergic skin reaction in a small proportion of individuals.
Inhalation: Vapor concentrations are attainable which could be hazardous on single exposure. Vapor may cause irritation of the upper respiratory tract (nose and throat).
Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.
Effects of Repeated Exposure: In animals, effects have been reported on the following organs: Lung. Respiratory tract.
Cancer Information: Vinyl acetate has caused cancer in some lab animals exposed to high vapor levels in long-term studies; tumors and other respiratory tract lesions occurred secondarily to chronic irritation. Vinyl acetate has caused tumors of the gastrointestinal tract in a drinking water study. Tumors occurred only at high doses, and mechanistic studies indicate that they occurred secondarily to irritation.

3. Composition Information

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 100.0 %
Hydroquinone	123-31-9	>= 0.0003 - <= 0.003 %

4. First-aid measures

Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
Skin Contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.
Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Notes to Physician: If burn is present, treat as any thermal burn, after decontamination. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property

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damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contacting an ignition source.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Unusual Fire and Explosion Hazards: Container may vent and/or rupture due to fire. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

6. Accidental Release Measures

Steps to be Taken if Material Is Released or Spilled: Contain spilled material if possible. Use non-sparking tools in cleanup operations. Ground and bond all containers and handling equipment. Pump into suitable and properly labeled containers. Pump with explosion-proof equipment. If available, use foam to smother or suppress. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of low areas. For large spills, warn public of downwind explosion hazard. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Vapor explosion hazard. Keep out of sewers. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. See Section 10 for more specific information. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Material may float on water and any runoff may create an explosion or fire hazard if ignited.

7. Handling and Storage

Handling

General Handling: Keep away from heat, sparks and flame. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Never use air pressure for transferring product. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Storage

Minimize sources of ignition, such as static build-up, heat, spark or flame. Maintain inhibitor level. Uninhibited monomer vapors can polymerize and plug relief devices. See Section 10 for more specific information.

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8. Exposure Controls / Personal Protection

Exposure Limits

Component	List	Type	Value
Vinyl acetate	DOW IHG	TWA	5 ppm
	DOW IHG	STEL	15 ppm
	ACGIH	TWA	10 ppm
	ACGIH	STEL	15 ppm

Personal Protection

Eye/Face Protection: Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Neoprene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl alcohol ("PVA"). Avoid gloves made of: Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls

Ventilation: Use only with adequate ventilation. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	Fruity
Flash Point - Closed Cup	-4 °C (25 °F) *Tag Closed Cup ASTM D56*
Flash Point - Open Cup	-8 °C (18 °F) *Tag Open Cup ASTM D1310*
Flammable Limits In Air	**Lower:** 2.6 %(V)
	Upper: 13.4 %(V)
Autoignition Temperature	No test data available
Vapor Pressure	92 mmHg @ 20 °C
Boiling Point (760 mmHg)	73 °C (163 °F)
Vapor Density (air = 1)	3.0
Specific Gravity (H2O = 1)	0.934 20 °C/20 °C
Freezing Point	-93 °C (135- °F)
Melting Point	No test data available

Solubility in Water (by weight)	2 % @ 20 °C
pH	No test data available
Molecular Weight	> 86 g/mol
Evaporation Rate (Butyl Acetate = 1)	8.9 *Literature*
Percent Volatiles	100 Wt%
Volatile Organic Compounds	932 g/l

10. Stability and Reactivity

Stability/Instability
Stable under recommended storage conditions. See Storage, Section 7.
Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose. Avoid static discharge. Avoid direct sunlight or ultraviolet sources.

Incompatible Materials: Avoid contact with: Amines. Ammonia. Peroxides. Strong acids. Strong bases. Strong oxidizers. Avoid contact with metals such as: Zinc. Copper alloys. Galvanized metals. Avoid unintended contact with peroxides.

Hazardous Polymerization
Can occur. Elevated temperatures can cause hazardous polymerization. Maintain inhibitor level. Uninhibited monomer vapors can polymerize and plug relief devices. This product is inhibited with: Hydroquinone.

Thermal Decomposition
Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity
Ingestion
Approximate. LD50, Rat: 2,500 - 3,000 mg/kg
Skin Absorption
LD50, Rabbit: 2,500 mg/kg
Inhalation
LC50, 4 h, Vapor, Rat: 3,680 - 4,650 ppm
Sensitization
Skin
Skin contact may cause an allergic skin reaction in a small proportion of individuals. Did not cause allergic skin reactions when tested in mice.
Repeated Dose Toxicity
In animals, effects have been reported on the following organs: Lung. Respiratory tract.
Chronic Toxicity and Carcinogenicity
Vinyl acetate has caused cancer in some lab animals exposed to high vapor levels in long-term studies; tumors and other respiratory tract lesions occurred secondarily to chronic irritation. Vinyl acetate has caused tumors of the gastrointestinal tract in a drinking water study. Tumors occurred only at high doses, and mechanistic studies indicate that they occurred secondarily to irritation.
Carcinogenicity Classifications:

Component	List	Classification
Vinyl acetate	IARC	Possible carcinogen.; 2B

Developmental Toxicity
Did not cause birth defects or any other fetal effects in laboratory animals.
Reproductive Toxicity

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In animal studies, did not interfere with reproduction.

Genetic Toxicology

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

12. Ecological Information

CHEMICAL FATE

Movement & Partitioning

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is high (Koc between 50 and 150).

Henry's Law Constant (H): 5.11E-4 atm-m3/mole; 25 °C Measured

Partition coefficient, soil organic carbon/water (Koc): 19 - 59 Estimated

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
2.63E-11 cm3/s	9.7 - 12 h	Estimated
1.75E-16 cm3/s	14.157 d	Estimated

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
82 - 98 %	14 d	OECD 301C Test

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
34 - 61 %	34 - 74 %	32 - 95 %	

Chemical Oxygen Demand: 1.53 - 1.77 mg/mg

Theoretical Oxygen Demand: 1.67 mg/mg

ECOTOXICITY

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species).

Fish Acute & Prolonged Toxicity

LC50, fathead minnow (Pimephales promelas): 19 - 28 mg/l

LC50, bluegill (Lepomis macrochirus): 18 mg/l

LC50, golden orfe (Leuciscus idus): 26 mg/l

LC50, goldfish (Carassius auratus): 42.3 mg/l

LC50, guppy (Poecilia reticulata): 31.1 mg/l

Aquatic Invertebrate Acute Toxicity

EC50, water flea Daphnia magna, 24 h, immobilization: 24 - 52 mg/l

LC50, water flea Daphnia magna, 24 h: 330 mg/l

EC50, water flea Daphnia magna, static renewal, 48 h, immobilization: 12.6 mg/l

Aquatic Plant Toxicity

EC50, alga Scenedesmus sp., Growth inhibition (cell density reduction), 7 d: > 370 mg/l

EC50, green alga Selenastrum capricornutum, Growth inhibition (cell density reduction), 72 h: 8.81 mg/l

EC50, green alga Selenastrum capricornutum, Growth rate inhibition, 72 h: 12.7 mg/l

EC50, green alga Selenastrum capricornutum, biomass growth inhibition, 72 h: 7.48 mg/l

Toxicity to Micro-organisms

EC50; bacteria, Growth inhibition, 16 h: 380 mg/l

EC50; bacteria, Growth inhibition, 16 h: > 6 mg/l

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transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	Yes
Fire Hazard	Yes
Reactive Hazard	Yes
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 100.0 %

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:
The following product components are cited in the Pennsylvania Special Hazardous Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 100.0 %

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103
This product contains the following substances which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 100.0 %
Ethyl acetate	141-78-6	<= 0.025 %
Acetaldehyde	75-07-0	<= 0.01 %
Acetone	67-64-1	<= 0.005 %
Hydroquinone	123-31-9	<= 0.003 %
Acetic acid	64-19-7	<= 0.002 %
Methanol	67-56-1	<= 0.002 %
1,4-Benzoquinone	106-51-4	<= 0.0001 %
Acrolein	107-02-8	<= 0.0001 %

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
This product contains the following substances which are subject to SARA Section 302 reporting requirements and which are listed in 40 CFR 302.4.

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 100.0 %

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California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Component	CAS #	Amount
Acetaldehyde	75-07-0	<= 0.01 %

US. Toxic Substances Control Act
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
European Inventory of Existing Commercial Chemical Substances (EINECS)
The components of this product are on the EINECS Inventory or are exempt from inventory requirements.
CEPA - Domestic Substances List (DSL)
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. Other Information

Product Literature
Additional information on this product may be obtained by calling your Dow Chemical Company sales or customer service contact. Ask for the brochure: Vinyl Acetate Safe Handling Guide; dated October 2002.

Hazard Rating System

NFPA	Health	Fire	Reactivity
	2	3	2

Recommended Uses and Restrictions
Chemical intermediate. For industrial use.

Revision
Identification Number: 11961 / 1001 / Issue Date 06/17/2005 / Version: 2.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

N/A	Not available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation

The Dow Chemical Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

EPAHO103000677

MACKS TRANSMISSION 2287

EPAHO10300678

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Scott**

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 # 2287

Generator: Mack's Transmission
Address: 8680 Cullen Blvd.
Houston, TX 77021

Waste Information

Name of Waste: Recyclable oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water and detergent used to clean off oil and grease from transmission parts from a transmissions repair facility
Color: brown to black **Odor:** mild **pH:** 4-9
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.

DD

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:	Mack's Transmissions		
Address:	8680 Cullen Blvd		
City, State, Zip:	Houston, TX 77021		
Contact:	Scott	**Title:**	Supervisor
Phone No:	713-738-1555	**Fax No:**	713-738-9101
24/hr Phone:	713-738-9101		
U.S. EPA I.D. No:	TXCESQG		
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: Recyclable Oily Water
Detailed Description of Process Generating Waste: Water and detergent used to clean off oil and grease from transmission parts from a transmissions repair facility.

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

Color: Brown to Black **Odor:** Mild

Specific Gravity (water=1): .9-1 **Density:** 8.3 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 800 gals

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Recyclable Oil and Water Mixture
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** 4-9	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-5%
Oil&Grease >200000mg/l	**TOC** Namg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

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TO:7136761676
PAGE:2
AUG-8-2007 07:50P FROM:

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SECTION 4: Physical and Chemical Data

Components/Parameters	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	60-80	%
Oil	10-15	%
Grease	1-10	%
Soap (Surfactants)	3-10	%

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: 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: Scott Brown **Date:** 8-8-07

Printed Name/Title:

Scott Brown (owner)

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbin Thompson

Date: 8-10-07 Approved Rejected

Approval Number: 2287

Process Facility Information:
Trans $69/hr-4 hr Min
20% Fuel SC
D-30/gal-$350 Min

REC

AUG-8-2007 07:50P FROM: TO:7137616176 P:3/5

EPAHO103000681

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

Oily 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.

AUG-8-2007 07:51P FROM: TO:7137616676 P:5/5

EPAHO103000683

Gulf States Protective Coatings
2288
(2288)

EPAHO10300684

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

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 # 2288

Generator: Gulf States Protective Coatings
Address: 201 N. 16th Street
LaPorte, TX 77571

Waste Information

Name of Waste: Sulfur diesel and water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Water contaminated with diesel / unused
Color: amber **Odor:** diesel **pH:** na
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Standard

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.

Attn: Dan
13pgs
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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Gulf States Protective Coatings
Address: 201 N. 16th Street
City, State, Zip: LaPorte, TX 77571
Contact: Bob Bohmer Title:
Phone No: 281-842-7319 Fax No: 281-842-7309
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: CES Services
Address: 10007 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr.
Phone No: 936-483-3662 Fax No: 936-756-4226

SECTION 3: General Description of the Waste

Name of Waste: Sulfur diesel ; water
Detailed Description of Process Generating Waste: water contaminated diesel / unused

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

Color: Amber Odor: diesel

Specific Gravity (water=1): 0.881 Density: 7.8 lbs/gal

Layers: ☒ Single-phase ☑ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 4 Other: ____
Texas State Waste Code No: Recycable
Proper U.S. DOT Shipping Name: Diesel Fuel
Class: 3 UN/NA: NA1993 PG: III RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
210+°F	N/A	___ mg/l	___ mg/l	___ %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
___ mg/l	___ mg/l	___ mg/l	___ mg/l	___ mg/l

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Diesel	90	%
Sulfur	0-.0015	%
Water	10	%

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

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:** 8/16/07

Printed Name/Title: Zac McVaughan

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 8-16-07 Approved Rejected

Approval Number: 2288

Additional Information: 150/dm REC

Light Ends due to Flash. Run Flash on Arrival

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.

EPAHO103000689

NOVA Chemicals

Material Safety Data Sheet

Material Name: Low Sulfur Diesel - S15 **MSDS ID: NOVA-0034**

Section 1 - Product and Company Identification

Synonyms: Ultra-low sulphur diesel, diesel oil, fuel distillate, hydrodesulfurized kerosene
Chemical Name: Kerosine, petroleum, hydrodesulfurized
Chemical Family: Kerosene
Material Use: Fuel for home heating; also for marine and on-road diesel engines
Chemical Formula: Not available; complex mixture

NOVA Chemicals
P.O. Box 2518, Station M
Calgary, Alberta, Canada T2P 5C6

Product Information: 1-412-490-4063

EMERGENCY Telephone Numbers:
North America (Canada and US):
1-800-561-6682, 1-403-314-8767 (NOVA Chemicals) (24 hours)
1-800-424-9300 (CHEMTREC-USA) (24 hours)
1-613-996-6666 (Canutec-Canada) (24 hours)
Mexico and South America: +44 208 762 8322 (NCEC) (24 hours)

General Comments

This product is a naturally occurring complex mixture of aliphatic, olefinic, naphthenic and aromatic hydrocarbons having a variable boiling range of 160 °C to 370 °C (320 °F to 698 °F).

Section 2 - Composition / Information on Ingredients

CAS #	Component	Percent by Wt.
64742-81-0	Kerosine, petroleum, hydrodesulfurized	≥99.5
7704-34-9	Sulfur	0-0.0015

Additional Information

This product is considered to be hazardous under 29 CFR 1910.1200 (Hazard Communication).
This material is a controlled product under Canadian WHMIS regulations.
This material is regulated as a hazardous material/dangerous goods for transportation.

See Section 8 for applicable exposure limits. See Section 11 for applicable toxicity data.

Section 3 - Hazards Identification

HMIS Ratings: Health: 1* **Fire:** 2 **Physical Hazard:** 0 **Personal Protection:** chemical goggles, gloves, respirator
*Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard*

NFPA Ratings: Health: 1 **Fire:** 2 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Emergency Overview

WARNING! COMBUSTIBLE. Product is an amber oily liquid with a kerosene-like odor. This product burns readily when heated to high temperatures, giving off combustible and toxic vapors. This product is harmful and possibly fatal if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe injury. This product is irritating to the eyes and skin. Ingestion or excessive inhalation of this product may result in headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions coma and possibly death. Contains trace components that may cause cancer. Avoid contact. Pre-existing medical conditions may be aggravated by exposure. Prevent entry into ditches, sewers, and waterways.

Potential Health Effects: Eyes

This product is irritating to the eyes. Pre-existing medical conditions are aggravated by exposure.

Potential Health Effects: Skin

Prolonged and/or repeated skin contact with this product may cause irritation, blistering and severe dermatitis. Product may be partially absorbed through intact skin. Prolonged or repeated contact with this product may cause allergic-like skin reactions and over time may possibly cause skin cancer. Pre-existing medical conditions are aggravated by exposure.

Potential Health Effects: Ingestion

This product is harmful or fatal if swallowed. Ingestion causes gastrointestinal irritation, nausea, vomiting, and cramping; depression of the central nervous system. May also cause central nervous system effects including headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions coma and possibly death. Ingestion may cause kidney and liver damage and blood disorders. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

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Potential Health Effects: Inhalation

This product may be harmful by inhalation. Pre-existing medical conditions are aggravated by exposure. Excessive inhalation of this material may result in heartbeat irregularities and central nervous system effects including headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions respiratory failure, coma and possibly death. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Section 4 - First Aid Measures

First Aid: Eyes

Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

First Aid: Skin

For skin contact, wash immediately with soap and water for at least 15 minutes. Seek medical attention if symptoms develop or persist. Completely decontaminate clothing, shoes and other protective equipment before reuse or discard.

First Aid: Inhalation

Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist. WARNING: Contact through mouth-to-mouth resuscitation may pose a secondary risk to the rescuer. Avoid mouth-to-mouth contact by using a mouth shield or guard to perform artificial respiration.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention. Small amounts which accidentally enter the mouth should be rinsed out until taste is gone.

First Aid: Notes to Physician

For more detailed medical emergency support information call 1-800-561-6682, 1-403-314-8767 (24 hours, NOVA Chemicals Emergency Response). Ensure thorough eye and skin decontamination. Treat unconsciousness, nausea, hypotension, seizures and cardiac arrhythmias in the conventional manner. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use the method least likely to cause aspiration, such as gastric lavage after protecting the airway. Observe hospitalized patients for delayed chemical pneumonia, acute tubular necrosis, encephalopathy and dysrhythmias. Monitor for urinary phenol within 72 hours of acute exposure.

Section 5 - Fire Fighting Measures

See Section 9: Physical Properties for flammability limits, flash point and autoignition information.

General Fire Hazards

Fire and container explosion hazards are serious when this product is exposed to heat, flame or oxidizing materials. Empty containers when heated may pose a fire risk. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Consider need for immediate emergency isolation and evacuation.

Explosion Hazards

Vapors may form explosive mixture with air. Keep containers away from source of heat, fire or oxidizing materials.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, acidic gases, nitrogen oxides, sulfur oxides, and other toxic contaminants.

Extinguishing Media

Dry chemical, foam, carbon dioxide, and water fog. Water may be an ineffective extinguishing medium and increase spread of flames. Use water spray to cool fire-exposed containers and to protect personnel. Monitor water run-off for flammability, and prevent from entering drains and sewers, or other confined or underground spaces.

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Fire Fighting Equipment/Instructions

Reference 2004 Emergency Guidebook, Guide No. 128 for additional details and instructions. Position upwind. Keep unnecessary personnel away. Move containers from fire area if you can do so without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Immediately withdraw in case of fire and tank venting or heat discoloration of a tank. If container, rail car or tank truck is involved in a fire, isolate for 800 meters (1/2 mile) in all directions, also consider initial evacuation for 800 meters (1/2 mile) in all directions. Fire fighters should wear full-face, self-contained breathing apparatus and thermal protective clothing. Avoid inhaling any smoke and combustion products. Remove and clean or destroy any contaminated clothing. Cool containers with water spray until well after the fire is out. Control runoff waters to prevent entry into sewers, drains, underground or confined spaces and waterways.

Section 6 - Accidental Release Measures

Evacuation Procedures

Isolate area. Keep unnecessary personnel away. Alert stand-by emergency and fire fighting personnel. Monitor surrounding area for build-up of flammable air concentrations.

Spills

Small spill or leak area should be isolated immediately for at least 50 meters (164 feet) in all directions. Eliminate ignition sources. Large spills, isolate and consider downwind evacuation for 300 meters (984 feet). Keep upwind and out of low areas. Stop discharge if safe to do so. Contain discharge by booming on water or diking on ground. Remove liquid material with non-sparking approved pumps, skimmers or vacuum equipment. Absorb with DRY earth, sand or other non-combustible material. Soil remediation may be required. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

Special Procedures

Contact local police/emergency services and appropriate emergency telephone numbers provided in Section 1. Ensure that statutory and regulatory reporting requirements in the applicable jurisdiction are met.
Wear appropriate protective equipment and clothing during clean-up. Individuals without appropriate protective equipment should be excluded from area of spill until cleanup has been completed

See Section 8 for recommended Personal Protective Equipment and see Section 13 for waste disposal considerations.

Section 7 - Handling and Storage

Handling Procedures

Keep locked up or secured. Handle in fully grounded, properly designed and approved equipment systems that are suitable for flammable liquids. Use with adequate ventilation. Do not ingest or inhale. Keep away from heat and ignition sources. No smoking or open flames permitted in storage, use or handling areas. Dissipate static electricity during transfer by grounding and bonding containers and equipment. An anti-static agent may be added to storage tanks to reduce static charge build-up during loading. Take special precautions when cold cutting or breaking into lines, or when cleaning and disposing of empty containers.
Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatible materials such as oxidizing agents. After handling, always wash hands thoroughly with soap and water.

Storage Procedures

Storage area should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel. Adequate security must be provided so that unauthorized personnel do not have access to product. Store in grounded, properly designed and approved vessels and away from incompatible materials. Store and use away from heat, sparks, open flame, or any other ignition source. An anti-static agent may be added to storage tanks to reduce static charge build-up during loading. Keep absorbents for leaks and spills readily available. Store according to applicable regulations. Have appropriate extinguishing capability in storage area (e.g. sprinkler system, portable fire extinguishers, flammable gas detectors). Inspect vents during winter conditions for vapor ice build-up.

See Section 8: Exposure Controls/Personal Protection for appropriate Personal Protective Equipment. See Section 10 for information on Incompatibilities.

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Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

Refer to published exposure limits - use effective control measures and PPE to maintain worker exposure to concentrations that are below these limits. Ensure that eyewash stations and safety showers are proximal to work locations.

B: Component Exposure Limits

ACGIH, OSHA, NIOSH, EPA, Alberta, and Ontario exposure limit lists have been checked for major components listed with CAS registry numbers. Other exposure limits may apply, check with proper authorities.

Kerosine, petroleum, hydrodesulfurized (64742-81-0)

ACGIH: 200 mg/m3 TWA (as total hydrocarbon vapor) (application restricted to conditions in which there are negligible aerosol exposures)
Skin - potential significant contribution to overall exposure by the cutaneous route.

Ontario: 200 mg/m3 TWAEV (as total hydrocarbon vapor) (application restricted to conditions in which there are negligible aerosol exposures)
Absorption through skin, eyes, or mucous membranes

Sulfur (7704-34-9)

Alberta: 10 mg/m3 TWA

ENGINEERING CONTROLS

Engineering methods to reduce hazardous exposure are preferred controls. Methods include mechanical ventilation (dilution and local exhaust) process or personal enclosure, remote and automated operation, control of process conditions, leak detection and repair systems, and other process modifications. Ensure all exhaust ventilation systems are discharged to outdoors, away from air intakes and ignition sources. Supply sufficient replacement air to make up for air removed by exhaust systems. Administrative (procedure) controls and use of personal protective equipment may also be required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles are recommended if splashing is possible, or to prevent eye irritation from vapors.

Personal Protective Equipment: Skin/Hands/Feet

Use impervious gloves. Wear chemical-resistant safety footwear with good traction to prevent slipping. Work clothing that sufficiently prevents skin contact should be worn, such as coveralls and long sleeves. Fire resistant (i.e., Nomex) or natural fiber clothing (i.e., cotton or wool) is recommended. Synthetic clothing can generate static electricity and is not recommended where flammable vapor releases may occur.

Personal Protective Equipment: Respiratory

If engineering controls and ventilation is not sufficient to prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA approved air-purifying respirators or self-contained breathing apparatus (SCBA) appropriate for exposure potential should be used. Air supplied breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Personal Protective Equipment: General

Personal protective equipment (PPE) should not be considered a long-term solution to exposure control. Employer programs to properly select, fit, maintain, and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation, and/or applicable regulations to determine hazard potential and ensure adequate protection.

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Section 9 - Physical & Chemical Properties

Physical State and Appearance:	Oily liquid	**Color:**	Amber
Odor:	Kerosene-like; can be detected at low ppm levels	**pH:**	Not available
Vapor Pressure:	1.50 mm Hg @ 20°C (68°F)	**Vapor Density @ 0°C (Air=1):**	8
Boiling Point:	160-370 °C (320-698 °F)	**Melting Point:**	Not applicable
Freezing Point:	-36 - 0°C (-32.8 - 32 °F)	**Specific Gravity (Water=1):**	≤ 0.861
Solubility (H2O):	Insoluble	**Dispersion Properties:**	Not available
Evaporation Rate (Ethyl Ether):	600	**Viscosity:**	1.30 -4.10 cSt @ 40°C (104°F)
Percent Volatile:	100%	**Auto Ignition:**	257°C (494.6°F)
Flash Point:	≥40°C (≥104°F)	**Flash Point Method:**	Pensky-Martens
Upper Flammable Limit (UFL):	Not available	**Lower Flammable Limit (LFL):**	Not available
Flammability Classification:	Combustible		

Section 10 - Stability & Reactivity Information

Chemical Stability

This product/material is stable under normal use conditions for shock, vibration, pressure, or temperature.

Instability

Not applicable

Chemical Stability: Conditions to Avoid

Keep away from heat, sparks, or open flame.

Incompatibility

May react with oxidizing agents. Slightly reactive with metals. Heated vapors or mists may form explosive mixture with air.

Hazardous Polymerization

Not likely to occur.

Corrosivity

Not considered to be corrosive.

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, acidic gases, nitrogen oxides, sulfur oxides, and other toxic contaminants.

Section 11 - Toxicological Information

A: Acute Toxicity - General Material Information

Similar fuel oil mixtures are being tested under the EPA's High Production Volume (HPV) program for the Kerosenes/Jet Fuel Category.

Kerosene is not considered acutely toxic. Animal tests have produced moderate to severe skin irritation and eye irritation. Eye irritation generally resolved within one to 7 days. Kerosenes did not produce sensitization when tested in guinea pigs. Sulfur component may cause sensitization.

B: Acute Toxicity - LD50/LC50

Kerosene, petroleum, hydrodesulfurized (64742-81-0)

Inhalation LC50 Rat: >5.2 mg/L/4H; Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Sulfur (7704-34-9)

Inhalation LC50 Rat: >6.23 mg/L/4H; Oral LD50 Rat: >3000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

C: Chronic Toxicity - General Material Information

Similar fuel oil mixtures are being tested under the EPA's High Production Volume (HPV) program for the Kerosenes/Jet Fuel Category.

Chronic skin exposure causes dermatitis and slight to moderate skin irritation in rabbits. Some animal studies have indicated damage to the heart and spleen. No tests have shown evidence of mutagenicity or teratogenicity. In carcinogenicity tests, kerosene was not an initiator but did show evidence of tumor promoting activity.

EPAHO103000694

D: Chronic Toxicity - Carcinogenic Effects

ACGIH, EPA, IARC, OSHA, and NTP carcinogen lists have been checked for selected similar materials or those components with CAS registry numbers.

Kerosine, petroleum, hydrodesulfurized (64742-81-0))

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans (as total hydrocarbon vapor)

IARC: Monograph 45, 1989 (related to Jet Fuel) (Group 3 (not classifiable))

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

Similar fuel oil mixtures are being tested under the EPA's High Production Volume (HPV) program for the Kerosenes/Jet Fuel Category. Product is largely insoluble in water. Under ambient conditions, this product absorbs quickly in soil. Kerosene shows moderate toxicity to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic/Terrestrial Toxicity

Kerosene, petroleum, hydrodesulfurized (64742-81-0)

96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]; 96 Hr LC50 Dendronereides heteropoda: 4720 mg/L

Sulfur (7704-34-9)

96 Hr LC50 Brachydanio rerio: 866 mg/L [static]

Environmental Fate/Mobility

Kerosene is not subject to hydrolysis. Partitioning to water is <10% at equilibrium, while partitioning to sediment is 2% and to biota (fish) is 0.1%

Persistence/Degradability

This material is considered biodegradable. Some components biodegrade quickly while other higher molecular weight components will degrade more slowly. Atmospheric half-lives of 0.2 to 1.5 days have been calculated for representative C9 and C16 hydrocarbon components of kerosenes.

Bioaccumulation/Accumulation

Lower molecular-weight, normal hydrocarbons are most readily biodegraded but tend to partition to air rather than water, while more complex, higher molecular weight polynuclear aromatics and substituted aromatics tend to sorb to soil or sediment; both processes limit bioavailability and can slow biodegradation. The hydrocarbons in kerosenes are generally not inhibitory to microbial activity though changes in microbial community composition may occur in spill or impacted areas due to the proliferation of species that can biodegrade the compounds.

Section 13 - Disposal Considerations

U.S./Canadian Waste Number & Descriptions

A: General Product Information

This product is known to be a hazardous waste according to US and Canadian regulations. The use, mixing or processing of this product may alter this product. Contact federal, provincial/state and local authorities in order to generate or ship a waste material associated with this product to ensure materials are handled appropriately and meet all criteria for disposal of hazardous waste. Vent to a burning flame at an approved facility. DO NOT ATTEMPT TO DISPOSE OF BY UNCONTROLLED IGNITION. Since emptied containers retain product residue, follow safe handling/label warnings even after container is emptied.

See Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional handling information that may be applicable for safe handling and the protection of employees.

Waste generator is advised to carefully consider hazardous properties and control measures needed for other materials that may be found in the waste

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

EPAHO103000695

Section 14 - Transportation Information

US DOT Information

Shipping Name: DIESEL FUEL
UN/NA #: NA1993 **Hazard Class:** 3 **Packing Group:** III
Required Label(s): FLAMMABLE LIQUID
Additional Information: 2004 Emergency Guidebook, Guide #128.
This classification applies to US domestic shipments only.

Canadian TDG Information

Shipping Name: DIESEL FUEL
UN #: UN1202 **Hazard Class:** 3 **Packing Group:** III
Required Label(s): FLAMMABLE LIQUID
Additional Information: 2004 Emergency Guidebook, Guide #128.

International Air Transport Association (IATA) and ICAO Information

Shipping Name: DIESEL FUEL
UN #: UN1202 **Hazard Class:** 3 **Packing Group:** III
Required Label(s): FLAMMABLE LIQUID

International Maritime Dangerous Goods (IMDG) Code

Shipping Name: DIESEL FUEL
UN #: UN1202 **Hazard Class:** 3 **Packing Group:** III
Required Label(s): FLAMMABLE LIQUID
Additional Information: EmS Code: F-E, S-E
Marine Pollutant: No

Section 15 - Regulatory Information

A: International Regulations

Component Analysis - International Inventory Status

Component	CAS #	US - TSCA	CANADA - DSL	EU - EINECS
Kerosine, petroleum, hydrodesulfurized	64742-81-0	Yes	Yes	Yes
Sulfur	7704-34-9	Yes	Yes	Yes

B: USA Federal & State Regulations

Ongoing occupational hygiene, medical surveillance programs, or site emission or spill reporting may be required by Federal or State regulations. Check for applicable regulations.

USA OSHA Hazard Communication Class

This product/material is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
HCS CLASS: Irritating substance.
HCS CLASS: Target organ effects.

USA Right-to-Know - Federal

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

USA Right-to-Know - State

The following components appear on one or more of the following state hazardous substances lists. Some components (including those present only in trace quantities, and therefore not listed in this document) may be included on the Right To Know lists of other U.S. states. The reader is therefore cautioned to contact his or her NOVA Chemicals representative or NOVA Chemicals' Product Integrity group for further U.S. State Right To Know information.

Component	CAS	NJ	PA
Sulfur	7704-34-9	Yes	Yes

C: Canadian Regulations - Federal and Provincial

WHMIS Ingredient Disclosure List (IDL)

No components are listed in the WHMIS Ingredient Disclosure List (IDL).

EPAHO103000696

WHMIS Classification

Workplace Hazardous Materials Information System (WHMIS): This product has been classified in accordance with Canadian Controlled Product Regulations (CPR) hazard criteria and this MSDS contains complete CPR-required information.
WHMIS CLASS B3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
WHMIS CLASS D2A: Material causing other toxic effects, very toxic material.
WHMIS CLASS D2B: Material causing other toxic effects, toxic material.

Other Regulations

Ongoing occupational hygiene, medical surveillance programs, or site emission or spill reporting may be required by Federal or Provincial regulations. Check for applicable regulations.

Section 16 - Other Information

Label Information

WARNING COMBUSTIBLE Product is an amber oily liquid with a kerosene-like odor. This product burns readily when heated to high temperatures, giving off combustible and toxic vapors. This product is harmful and possibly fatal if swallowed. Small amounts of this product, if aspirated into the lungs, may cause mild to severe injury. This product is irritating to the eyes and skin. Ingestion or excessive inhalation of this product may result in headache, sleepiness, dizziness, nausea, loss of coordination, and in extreme conditions coma and possibly death. Contains trace components that may cause cancer. Avoid contact. Pre-existing medical conditions are aggravated by exposure. Prevent entry into ditches, sewers, and waterways.

FIRST AID:
SKIN: For skin contact, wash immediately with soap and water for at least 15 minutes. Seek medical attention if symptoms develop or persist. Completely decontaminate clothing, shoes and other protective equipment before reuse or discard.
EYES: Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.
INHALATION: Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist. WARNING: Contact through mouth-to-mouth resuscitation may pose a secondary risk to the rescuer. Avoid mouth-to-mouth contact by using a mouth shield or guard to perform artificial respiration.
INGESTION: DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention. Small amounts which accidentally enter the mouth should be rinsed out until taste is gone.
IN CASE OF A LARGE SPILL: Consider downwind evacuation for 300 meters (984 feet). Stop discharge if safe to do so. Eliminate ignition sources. Keep upwind and out of low areas. Isolate, contain, and attempt to recover. Absorb with DRY earth, sand or other non-combustible material. Remove material with non-sparking approved pumps, skimmers or vacuum equipment. Soil remediation may be required. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

References

Available on request.

Special Considerations

The International Agency for Research on Cancer (IARC) has categorized diesel exhaust as carcinogenic to humans (Class 2A).
Diesel exhaust particulates
NTP: Reasonably anticipated to be a Human Carcinogen (related to Diesel exhaust particulates)
IARC: Monograph 46, 1989 (related to Diesel engine exhaust) (Group 2A (probably carcinogenic to humans))

For additional information on equipment bonding and grounding, refer to the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity".

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; BLEVE = Boiling Liquid Expanding Vapor Explosion; BOD = Biochemical Oxygen Demand; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Substances; EPA = Environmental Protection Agency; EU = European Union; FDA = Food and Drug Administration; IARC = International Agency for Research on Cancer; IDL = Ingredient Disclosure List; Kow = Octanol/water partition coefficient; LEL = Lower Explosive Limit; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; RCRA = Resource Conservation and Recovery Act; SARA = Superfund Amendments and Reauthorization Act; TDG = Transportation of Dangerous Goods; TSCA = Toxic Substances Control Act.

MSDS Prepared by: NOVA Chemicals
MSDS Information Phone Number: 1-412-490-4063

EPAHO103000697

Other Information:

Notice to Reader

ALTHOUGH THE INFORMATION CONTAINED IN THIS DOCUMENT IS PRESENTED IN GOOD FAITH, BASED ON AVAILABLE INFORMATION BELIEVED TO BE RELIABLE AT THE TIME OF PREPARATION OF THIS DOCUMENT, **NOVA CHEMICALS MAKES NO WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION OR THE PRODUCT/MATERIALS DESCRIBED HEREIN, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES AND CONDITIONS (INCLUDING ALL WARRANTIES AND CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). NO FREEDOM FROM INFRINGEMENT OF ANY PATENT OWNED BY NOVA CHEMICALS OR OTHERS IS TO BE INFERRED. THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE CONTACT NOVA CHEMICALS FOR THE MOST CURRENT VERSION OF THIS MSDS. NOVA CHEMICALS DOES NOT ASSUME RESPONSIBILITY FOR MSDS OBTAINED FROM THIRD PARTY SOURCES.**

RESPONSIBILITY FOR USE, STORAGE, HANDLING AND DISPOSAL OF THE PRODUCTS/MATERIALS DESCRIBED HEREIN, WHETHER ALONE OR IN COMBINATION WITH ANY OTHER SUBSTANCE, IS THAT OF THE PURCHASER AND/OR END USER.

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This is the end of MSDS # NOVA-0034

EPAHO103000698

2289
Goodman MANUFACTURING (2289)

EPAHO103000699

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Brandi Hooper**

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 # 2289

Generator: Goodman Manufacturing (Furnace Plant)
Address: 3300 West 11th Street
Houston, TX 77008

Waste Information

Name of Waste: Anti wear and anti foam hydraulic oil
TCEQ Waste Code #: 11072091
Container Type:
Detailed Description of Process Generating Waste:
Unused product
Color: clear **Odor:** slight hydrocarbon **pH:** 4-10
Physical State:
Incompatibilities: Liquid chlorine, contrated oxygen, sodium hypochlorite, calcium hypochlorite
Safety Related Data/Special Handling:
Standard 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.

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

(b) (4)

[redacted]

(b) (4)

[redacted]

Hydraulic Oil

MATERIAL SAFETY DATA SHEET

Jones Oil, Inc. 4828 N. Shepherd Houston, TX 77018

August 1, 2002

I. PRODUCT IDENTIFICATION

PRODUCT NAME
R S O AW 100

APPEARANCE AND ODOR: Clear liquid
Slight Hydrocarbon Odor

EMERGENCY TELEPHONE NUMBER
(800) 424-93 00 Chemtrec

CHEMICAL NAME
Petroleum Lubricating Oil

CHEMICAL FAMILY
Petroleum Hydrocarbon

II. COMPOSITION

COMPONENTS	APPROXIMATE CONCENTRATION	EXPOSURE LI MIT
Napthenic Base Stock	Greater than 98%	5 mg/m^3
Proprietary Additives	Less than 2%	None establi hed

III. PHYSICAL DATA

BOILING POINT (°F/°C)	VAPOR DENSITY (AIR=1)	pH	POU T POINT (°F/°C)
>550/288	N/A	Neutral	+10 -12

VAPOR PRESSURE (mm Hg)	MOLECULAR WEIGHT	EVAPORATION RATE (n – BA=1)	Flash Point (°F/°C)
N/A	N/A	N/A	420/216

SPECIFIC GRAVITY (H_2O=1)	PERCENT, VOLATILE BY VOLUME	SOLUBILITY IN WATER	VISCOSITY
0.8649	Negligible	Negligible	35 cST @ 40°C

IV. EMERGENCY AND FIRST AID PROCEDURI S

EYE CONTACT
Flush with clear water for 15 minutes. If irritation persists, call a physician.

SKIN CONTACT
Remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION Not normally a problem at ambient temperatures. If overcome by vapors from hot produc t, remove from exposure and call physician. If breathing irregular, administer oxygen.

INGESTION
If ingested, call a physician at once.

V. FIRE AND EXPLOSION HAZARD

FLASH POINT (°F/°C)
420/216

AUTO IGNITION TEMP (°F/°C)
>550/288

FLAMMABLE LIMITS IN AIR (% BY VOLUME)
LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA FIRE FIGHTING PROCEDURI S
Use water fog foam dry chemical or 00_2. Do not se direct stream of water. Product can float and may reignite on surface of water.

DECOMPOSITION PRODUCTS FROM FIRE. Fumes, si noke, carbon monoxide and other organic compounds.

NFPA FLAMMABILITY CLASSIFICATION
NFPA Class-IIIB combustible material. Slightly combustible!

EMPTY CONTAINER WARNING Do not pressurize, cut, weld, braze, solder, drill, grind, or expose to heat, flames, sparks or other ignition sources. Do not clean, return empty drums to reconditioner.

VI. HEALTH AND HAZARD

NATURE OF HAZARD: Prolonged or repeated skin contact can lead to irritation and dermatitis.
EFFECTS OF OVEREXPOSURE
Skin or eye irritation if exposed for prolonged periods.

TOXICITY INFORMATION
Product has low order of oral toxicity. LD50 N/A

INDIVIDUAL VARIABILITY
Health risks vary from person to person. Exposure to liquid vapors or fumes should be minimized.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Recover free product. Wear protective cloth ng, respirator. Dike and contain large spills. Remove with vacuum truck or other method. Soak up residue with sand, earth, clay or oth r suitable absorbent. Flush area with water. Do not allow product to enter sewer system. Notify proper authorities of possible water sy stem contamination.

WASTE DISPOSAL METHOD
Place in appropriate disposal facility

NEUTRALIZING CHEMICALS
None required

VIII. SPECIAL PROTECTION

VENTILATION
Provide adequate ventilation to prevent exceeding exposure limit, and minimize explosive concentratio ns of vapor in air. No smoking or open lights.

RESPIRATORY: Not normally needed. Air respirator protection in confined or enclosed spaces.

EYE: Wear safety goggles to avoid eye contact.

GLOVES: Wear chemical resistant glove if needed.

OTHER PROTECTIVE EQUIPMENT
Wear chemical resistant apron or other protective clothing. Avoid prolonged contact.

WORK PRACTICES: Keep containers closed. Avoid heat, flame, sparks, or strong oxidants.

PERSONAL HYGIENE
Minimize breathing vapor. Avoid prolonged skin contact, clean exposed area thoroughly. Wash conta: inated clothing. Discard oil soaked shoes, gloves, or other work clothes.

IX. REACTIVITY

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Avoid strong oxidizing materials, heat, open flames or oth r organic compounds may form.

INCOMPATABILITY (MATERIALS TO AVOID)
Liquid chlorine, concentrated oxygen, sodium hypochlorite, or calcium hypochlorite

HAZARDOUS DECOMPOSITION PRODUCTS
Depends on combustion conditions. Carbon monoxide and other organic compounds may form.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	MAY NOT OCCUR	X	

X. SPECIAL PRECAUTIONS

STORING AND HANDLING: Store in a cool, dry place with adequate ventilation. Keep away from open fl mes and high temperature. Use care to prevent leaks or spills.

TRANSPORTATION: DOT classification: Not hazardous.
OTHER PRECAUTIONS: Spills can present a slippery surface. Be sure all product removed or absorbed be fore operating equipment over spill area.

The information contained herein is based on available data to us and is believed to be correct. Howeve , seller makes no warranty

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

EPAHO103000705

(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.

EPAHO103000706

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2289** ✓

Customer: **Goodman Manufacturing (Furnace Plant)**

Waste Generator: **Goodman Manufacturing (Furnace Plant)**

Waste Stream Name: **Anti wear and anti foam hydraulic oil**

Expiration Date: **8/16/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

✓ No changes, please recertify. Analysis is NOT required for recertification.

Please send new profile as waste stream has changed. The following analysis is required for recertification. Please sumbit results of the following tests.

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

Goodman Mfg.
Customer Name

Signature

EHS Coordinator
Company / Title

7/16/09
Date

3390
Goodman Manufacturing (2290)

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Brandi Hooper**

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 # 2290

Generator: Goodman Manufacturing (Furnace Plant)
Address: 3300 West 11th Street
Houston, TX 77008

Waste Information

Name of Waste: Empty drums
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Empty drums that formerly stored various chemicals
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
none

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:	Goodman Manufacturing		
Address:	3300 West 11th Street		
City, State, Zip:	Houston, TX 77008		
Contact:	Jim McCoy	**Title:**	EHS Manager
Phone No:	713 263-5327	**Fax No:**	713-602-3284
24/hr Phone:	281-850-4044		
U.S. EPA I.D. No:	N/A		
State I.D.	84122	**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: Empty Drums
Detailed Description of Process Generating Waste: Empty drums that formerly stored various chemicals

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

Color: varies **Odor:** None

Specific Gravity (water=1): 2 **Density:** 15 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 10 **Other:**
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non DOT Regulated Materials
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point N/A	**pH** N/A	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000710

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Empty metal drums	0-100	%
Empty poly drums	0-100	5

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

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: [signature] **Date:** ~~5/10/08~~ 7/31/07

Printed Name/Title: Jim McCoy/EHS Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: $ 10/dm

Date: 8-16-07 Approved Rejected REC

Approval Number: 2290

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

EPAHO103000712

(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.

EPAHO103000713

Reprints/Updates of this document are available at our website:
http://www.oakinternational.biz

OAK INTERNATIONAL
Global Metalforming Fluids

Material Safety Data Sheet

OAK KLEEN 300

GENERAL PURPOSE CLEANER CONCENTRATE

DATE EFFECTIVE: 10-06-2006

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	Oak International, Inc. 1160 White Street Sturgis, MI 49091 United States
Emergency:	Telephone (USA): 1-800-424-9300 (CHEMTREC) Telephone (OUTSIDE USA): 1-703-527-3887 (CHEMTREC)
General Information:	Telephone: 1-269-651-9790
Generic Name:	Water Soluble General Purpose Cleaner Concentrate

2 EMERGENCY INFORMATION

Product is alkaline. Product may be a primary skin irritant. Product is a primary eye irritant. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

	Product	Product at Use Dilution
Inhalation:	Not Applicable	Extended exposure to mist may cause upper respiratory irritation.
Eye Contact:	Product is a primary eye irritant.	Will cause stinging sensation in the eye.
Skin Contact:	Product may be a primary skin irritant.	Product may be a primary skin irritant.
Ingestion:	Not orally toxic.	Swallowing small quantities may cause diarrhea, nausea or vomiting.

Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals, or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure. Contact Oak International, Inc. Technical Services at 1-269-651-9790 for specific recommendations.

EPAHO103000714

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted. Contact Oak International, Inc. at 1-269-651-9790 for specific recommendations.

Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.

Carcinogen Listings: NTP: No IARC: No OSHA: No

Signs and symptoms of exposure

Acute

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

4 EMERGENCY AND FIRST AID PROCEDURES

Eyes

In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.

Skin Contact

For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.

Ingestion

If the material is swallowed, get immediate medical attention or advice. DO NOT INDUCE VOMITING. Give two glasses of water or milk. Immediately contact a physician and obtain treatment. Swallowing small quantities of diluted product may cause nausea, diarrhea or abdominal distress.

Inhalation

Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m³ for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m³ for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

5 CONTROL MEASURES

Respiratory protection

Product is not volatile.

In applications where time-weighted exposures are 0.5 to 5 mg/m³, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m³, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m³, respiratory protection should be based on the individual recommendation of a qualified health care provider.

Caution

The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.

Ventilation

For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

EPAHO103000715

Eye protection

Proper metalworking plant eye protection required when handling product concentrate.

Other protective clothing or equipment

Use effective metalworking plant protective clothing as appropriate.

Work / Hygiene Practices

Good personal hygiene should always be followed.

Protective Gloves

Impervious gloves, such as nitrile gloves, are recommended when handling product concentrate.

6 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

Component	CAS #	Percent
TRIETHANOLAMINE	102-71-6	7 - 13
MONOETHANOLAMINE	141-43-5	1 - 5
MONOISOPROPANOLAMINE	78-96-6	1 - 5

7 FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media

Not Applicable

Hazardous Combustion Products

Smoke, fumes, oxides of nitrogen, and oxides of carbon

Flash Point: Not Applicable

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

HMIS RATINGS

Health	1
Flammability Classification	0
Reactivity	0

NFPA RATINGS

Health	1
Flammability Classification	0
Reactivity	0

8 ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

Reportable Quantity: None

EPAHO103000716

9 WASTE DISPOSAL

For Used Product

Disposal procedures must comply with local, county, state and Federal regulations. If pre-treatment is needed, ultrafiltration, emulsion breaking or evaporation may be used. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

For Unused Product

Product is not a hazardous waste as defined under 40 CFR 261. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

10 HANDLING AND STORAGE

Avoid all contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product concentrate in direct sunlight or elevated temperatures. Use only as recommended by Oak International, Inc. . Protect from freezing.

Other Precautions

Contains amines. Do not add sodium nitrite or other nitrosating agents to this product because suspected cancer-causing nitrosamines may be formed.

11 PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	212 °F (100 °C)
Specific Gravity:	1.03
Solubility (H2O):	100 %
pH (Concentrate):	9.8
pH (Mix):	9.4 @5%
Recommended Starting Dilution:	5 %
Appearance/Odor:	Clear/Chemical

12 REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Use as directed.

Materials to avoid

Avoid contact with strong acids or oxidizers to product.

Hazardous Polymerization

Will not occur.

Combustion Products

Smoke, fumes, oxides of nitrogen, and oxides of carbon

EPAHO103000717

13 TRANSPORTATION INFORMATION

BY LAND

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

U.S. Harmonized Tariff Code: 3402.90.5050

BY AIR OR VESSEL

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

14 REGULATORY INFORMATION

EXPOSURE GUIDELINES

REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
TRIETHANOLAMINE				5 mg/m³	
MONOETHANOLAMINE		3 ppm	6 ppm	3 ppm	6 ppm
METALWORKING FLUID MIST	0.5 mg/m³				

CERCLA

No components of this product are present at levels which require reporting under 40 CFR 302.4.

EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): None

Hazardous Substances (311/312)

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

HAZARD CATEGORIES

Acute Health: Yes

Chronic Health: No

Fire: No

Sudden Release of Pressure: No

Reactive: No

RCRA

Product concentrate does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the product may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

TSCA

The ingredients of this product are on the TSCA inventory.

State Right to Know

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

Toxic Substances (313)

Component	CAS #	Max %	Comments
None		%	

EPAHO103000718

GLOSSARY OF ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygenists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds

Disclaimer

NOTE: The opinions expressed herein are those of qualified experts within Oak International, Inc. and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of Oak International, Inc. , it is the user's obligation to determine the conditions of safe use of the product.

EPAHO103000719

2291
Goodman MANUFACTURING <2291>

EPAHO10300720

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Brandi Hooper**

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 # 2291

Generator: Goodman Manufacturing (Furnace Plant)
Address: 3300 West 11th Street
Houston, TX 77008

Waste Information

Name of Waste: Instafill component "B"
TCEQ Waste Code #: 11072091
Container Type:
Detailed Description of Process Generating Waste:
Unused product
Color: light straw/amber **Odor:** slight amine **pH:** 3-11
Physical State:
Incompatibilities: Isocyanates
Safety Related Data/Special Handling:
standard 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.

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: Goodman Manufacturing (Furnace Plant)
Address: 3200 West 11th Street
City, State, Zip: Houston, TX 77008
Contact: Brandi Hooper Title: EHS
Phone No: 713-203-5899 Fax No: ~~713-526-8037~~ 713-602-3284
24-hr Phone: 281-850-4644
U.S. EPA I.D. No: NA
State I.D. 84122 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: Enstrfill Component "D"
Detailed Description of Process Generating Waste: Unused product

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

Color: light straw/amber Oder: Slight amine

Specific Gravity (water=1): 1.03 Density: 8.6 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): 5 Other:

Texas State Waste Code No: 1107 2091
Proper U.S. DOT Shipping Name: Non Dot Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	2-11	<20 mg/l	<20 mg/l	0-2 %

Oil&Grease	TOC	Zinc	Copper	Nickel
N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Instafill Component "B"	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.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
isocyanates

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: [signature] Date: 7/31/07

Printed Name/Title: Jim McCoy / CES

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature] Date: 8-16-07 Approved Rejected Approval Number: 2291	#95/dm OL

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

EPAHO103000724

(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.

EPAHO103000725

PCI GENERATOR'S WASTE PROFILE SHEET

COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION

Generator Name Goodman Manufacturing
Facility Address 3300 West 11th St. City Houston State TX Zip 77008
Customer Name Brandi Hooper
Customer Phone 713.203.5594 Customer FAX
Generator USEPA/Federal ID# TXLESQG
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ◯ Yes ⊘ No
Generator's S.I.C. Code (4 Digit)

BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐
Billing Name CES Environmental Services
Billing Address 4904 Griggs Rd City Houston State TX Zip 77021
Billing Contact Name
Billing Phone 713 676 1460 Billing FAX 713 676 1676
PCI Sales Rep. J. Steffel

B. WASTE STREAM INFORMATION

Name of the Waste Instapak Component "A"
Original Process Generating Waste Unused out of date product
Is a representative sample provided? ☐ Yes ☒ No Is a MSDS attached? ☒ Yes ☐ No
Is there any analytical attached? ☐ Yes ☒ No

C. GENERAL CHARACTERISTICS

Color Select dark brown Odor musty
Physical State @ 70 F 100 %Liquid 0 %Sludge 0 %Solid 0 %Powder
0 %Gas (Aerosol) 0 %Gas (Other) 0 %Other

Phases Single Layer ◯ Multi Layer ● How Many
Btu/lb <3,000 ◯ 3,000-5,000 ● 5,000-10,000 ◯ >10,000 ◯
PH <2.0 ◯ 2.0 to 4.0 ● 4.0 to 10.0 ● 10.0 to 12.5 ● >12.5 ◯
Liquid Flash Point <73 F ◯ 73 to 99 F ◯ 100 to 139 F ◯ 140 to 200 F ◯ >200 F ● None ◯
Specific Gravity 1.24 % Total Halogens N/A

D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
Instapak component "A"	100	100		Select	Select
	Select	Select		Select	Select
	Select	Select		Select	Select

NM
CES

Sealed Air

Protective Packaging Division
10 Old Sherman Turnpike
Danbury, CT 06810

MATERIAL SAFETY DATA SHEET

IFILL-B
Page 1 of 5
Issued 1/2004

(b) (4)

[redacted]

Sealed Air

Protective Packaging Division
10 Old Sherman Turnpike
Danbury, CT 06810
203-791-3500 Fax: 203-791-3618

(b) (4)

[redacted]

Sealed Air
Protective Packaging Division
10 Old Sherman Turnpike
Danbury, CT 06810

(b) (4)

[redacted]

(b) (4)

[redacted]

Sealed Air
Protective Packaging Division
10 Old Sherman Turnpike
Danbury, CT 06810

(b) (4)

[redacted]

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2291**

Customer: **Goodman Manufacturing (Furnace Plant)** ✓

Waste Generator: **Goodman Manufacturing (Furnace Plant)**

Waste Stream Name: **Instafill component "B"**

Expiration Date: **8/16/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

√ No changes, please recertify.

Please send new profile as waste stream has changed.

Goodman MFG
Customer Name

Kenny R
Signature

E.H.S. Coordinator
Company / Title

7/16/09
Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

Goodman Manufacturing (2292)

EPAHO103000733

72

LAB

T-34

8-4-09

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Brandi Hooper**

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 # 2292

Generator: Goodman Manufacturing (Furnace Plant)
Address: 3300 West 11th Street
Houston, TX 77008

Waste Information

Name of Waste: Adhesive
TCEQ Waste Code #: 11014031
Container Type:
Detailed Description of Process Generating Waste:
Unused adhesive used to to adhere duct liners
Color: white or black **Odor:** none **pH:** 4-11
Physical State:
Incompatibilities: strong acids or alkaline materials
Safety Related Data/Special Handling:
Standard 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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company:	Goodman Manufacturing		
Address:	3300 West 11th Street		
City, State, Zip:	Houston, TX 77008		
Contact:	Brandy Wehnes Hooper	Title:	E.H.&S. Coordinator
Phone No:	713-263-5594	Fax No:	713-602-3284
24/hr Phone:	281-212-4756		
U.S. EPA I.D. No:	N/A		
State I.D.	84122	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: Adhesive
Detailed Description of Process Generating Waste: Unused adhesive used to adhere duct liners

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

Color: White or Black Odor: None

Specific Gravity (water=1): 1.18861 Density: 10 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): 5 Other: ____
Texas State Waste Code No: 1101403
Proper U.S. DOT Shipping Name: Non-RCRA/Non DOT regulated waste solids (waste adhesives)
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-11	~~BRL~~ mg/l NA	~~BRL~~ mg/l NA	~~BRL~~ % 100

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 %
Kingco 11-400 Duct Liner Adhesive PF 101, PF 102	99-100	%
Silica,quartz	<0.5	%
Potassium hydroxide	<0.5	%

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.
Material Safety Data Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong Acid or Alkaline materials

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: X _____ **Date:** 8/1/2007

Printed Name/Title: Jim McL / Mgr of Enviro Affairs

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: $75/hr

Date: 8-16-07 Approved Rejected TS

Approval Number: 2292

EPAHO103000737

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.

EPAHO103000738

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.

EPAHO103000739

Glue

MATERIAL SAFETY DATA SHEET

MSDS Name: KINGCO 11-400 DUCT LINER ADHESIVE
MSDS Number: 11-400

MSDS Last Updated: NOV-18-2002 Printed On: 11/19/02
Page Number: 1 of 5

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	KINGCO 11-400 DUCT LINER ADHESIVE
CAS Number:	MIXTURE
Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPI: B
Company Identification:	ITW TACC AIR STATION INDUSTRIAL PARK ROCKLAND MA 02370
Telephone/Fax:	(781) 878-7015 (781) 871-6727
Chemtrec (24 Hour):	(800) 424-9300
Trade Name:	KINGCO 11-400
Product Code:	11-400
DOT Hazard Class	
UN Number:	NON REG
Shipping Name:	
Packing Group:	

SECTION II - HAZARDOUS INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
SILICA, QUARTZ	14808-60-7	< 0.5	Y
POTASSIUM HYDROXIDE	1310-58-3	< 0.5	Y

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it many lead to disability and death.
Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

SECTION III - PHYSICAL DATA

Appearance/Color:	WHITE OR BLACK
Boiling Range:	212.øF

MATERIAL SAFETY DATA SHEET

MSDS Name: KINGCO 11-400 DUCT LINER ADHESIVE
MSDS Number: 11-400

Evaporation Rate:	Slower than n-Butyl Acetate
% Volatile Weight:	20.35%
% Volatile Volume:	Not Available
Specific Gravity:	1.18801
Weight/Volume Measure:	9.89258
EPA Method 24 VOC:	0.7 g/L

Photo Chem Reactive Only VOC: 1.3

SECTION IV - FIRE AND EXPLOSION HAZARD DANGER

Flammability Class:	IIIB
Flash Range:	Not Applicable
Explosive Range:	Not Applicable

EXTINGUISHING MEDIA:
Water spray, carbon dioxide, dry chemical or foam.
SPECIAL FIREFIGHTING PROCEDURES:
After water evaporates, remaining material will burn. Breathing apparatus when fighting fires in enclosed areas.
UNUSUAL FIRE & EXPLOSION HAZARDS:
Decomposition products may cause a health hazard.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:
SEE SECTION VIII.
EFFECTS OF OVEREXPOSURE:
INHALATION: Materials are low in volatility and therefore not likely to pose a problem.
EYES: May cause minor irritation.
SKIN: Not likely to be absorbed in toxic amounts. Avoid skin contact as much as possible; upon repeated contact, slight skin irritation may occur.
INGESTION: None reported, not likely route of entry.
FIRST AID:
INHALATION: Get fresh air.
EYES: Flush with water for at least 15 minutes.
SKIN: Wash with mild soap and water; apply a mild cream.
INGESTION: Small amounts are not expected to produce adverse health effects. Larger amounts should be recovered by

MATERIAL SAFETY DATA SHEET

MSDS Name: KINGCO 11-400 DUCT LINER ADHESIVE
MSDS Number: 11-400

MSDS Last Updated: NOV-18-2002 Printed On: 11/19/02
Page Number: 3 of 5

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aspiration. Call a physician.

SECTION VI - REACTIVITY DATA

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY:
Strong acids or alkaline materials.
CONDITIONS TO AVOID:
None known.
HAZARDOUS DECOMPOSITION PRODUCTS:
Fumes, smoke, carbon monoxide, carbon dioxide in the case of incomplete combustion.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Confine to small area. Use absorbent to clean up. Place in container for disposal.
WASTE DISPOSAL METHOD:
Dispose in accordance with federal, state and local regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
SILICA, QUARTZ	0.10 mg/M3	N/est	N/est	N/est	0.10 mg/M3
POTASSIUM HYDROXIDE	N/est	N/est	N/est	N/est	N/est

RESPIRATORY PROTECTION:
None required for normal use.
VENTILATION:
Natural ventilation should be adequate under normal conditions.
PROTECTIVE GLOVES:
Impervious gloves, if needed, to avoid repeated or prolonged skin contact.
EYE PROTECTION:

MATERIAL SAFETY DATA SHEET

MSDS Name: KINGCO 11-400 DUCT LINER ADHESIVE
MSDS Number: 11-400

MSDS Last Updated: NOV-18-2002 Printed On: 11/19/02
Page Number: 4 of 5

Safety glasses. Face shield as necessary if spraying.
OTHER PROTECTIVE EQUIPMENT:
Not likely to be needed.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Do not store above 125 degrees F or below freezing or damage may occur to product.
OTHER PRECAUTIONS:
For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumpion. No smoking. Do not breathe fumes. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Close all containers when not in use. Empty containers must not be washed and re-used for any purpose. Contact lens wearers take appropriate precautions. Wash hands throughly after handling.

For spray applications, use only with approved spray equipment.

For flammable products, vapors may cause flash fire or ignite explosively. To prevent buildup of vapors, use adequate ventilations (e.g. open all windows and doors to achieve cross-ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near container.

SECTION X - ADDITIONAL REGULATORY INFORMATION

-PROP 65 (CARCINOGEN)
WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
SILICA, QUARTZ	14808-60-7	< 0.5

DISCLAIMER

****** NOTICE ******

MATERIAL SAFETY DATA SHEET

MSDS Name: KINGCO 11-400 DUCT LINER ADHESIVE
MSDS Number: 11-400

MSDS Last Updated: NOV-18-2002 Printed On: 11/19/02
Page Number: 5 of 5

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ITW TACC. The data on this sheet relates only to the specific material designated herein. ITW TACC assumes no legal responsibility for use or reliance upon these data.

CES Environmental Services, Inc.

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

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2292**

Customer: **Goodman Manufacturing (Furnace Plant)**

Waste Generator: **Goodman Manufacturing (Furnace Plant)**

Waste Stream Name: **Adhesive**

Expiration Date: **8/16/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

✓ No changes, please recertify.

Please send new profile as waste stream has changed.

Goodman Mfg Co
Customer Name

Signature

EHS Coordinator
Company / Title

7/16/09
Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

TBC Brianadd (2266) 2266

EPAHO103000746

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/30/2007**

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 # 2266

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

Waste Information

Name of Waste: Oil cuttings
TCEQ Waste Code #: CESQ4891
Container Type:
Detailed Description of Process Generating Waste:
Cuttings from testing drilling equipment
Color: brown **Odor:** slight hydrocarbon **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.

Attn: Dan

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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: TBC Brinadd
Address: 235 Farris
City, State, Zip: Houston, TX 77054
Contact: Rich Warmack Title:
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: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CNG Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title:
Phone No: 936-483-3662 Fax No: 936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: Oil cuttings
Detailed Description of Process Generating Waste: Cutting from testing drilling equip.

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

Color: Brown Odor: Slight Hydrocarbon

Specific Gravity (water=1): 1-1.5 Density: 8-9 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): 12 Other:
Texas State Waste Code No: CESQG4891
Proper U.S. DOT Shipping Name: N/A
Class: — UN/NA: — PG: — RQ: —

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7140°F	N/A	— mg/l	— mg/l	— %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	— mg/l	— mg/l	— mg/l

EPAHO103000748

SECTION 4: Physical and Chemical Data

COMPONENT TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dirt	80-90	%
Oil	1-10	%

SECTION 5: Safety Related Data

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

N/A

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):

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: 7/22/07

Printed Name/Title: Lee McHaugh

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: N/A/dm

Date: 7-30-07 (Approved) Rejected OS

Approval Number: 2266

EPAHO103000749

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

EPAHO103000750

(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.

EPAHO103000751

Attn: Lem 52 pgs

A4 Scientific
www.a4scientific.com

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281)292-5277
FAX: (281)292-2481

June 12, 2007

ZAC MCKAUGHAN
CRG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

REFERENCE:

Project.....: TBC
Project Number.....: 0005
Lab Episode Number.....: 8181
Date Received.....: 04/05/2007

Dear ZAC MCKAUGHAN:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

☐UNKNOWN ☐OIL CUTTINGS ☐ ☐

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,

06/12/07

Pradeep Divvela
Quality Assurance Manager

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....: TBC
CLIENT PROJECT NUMBER...: 0005

Prepared For:

CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

Date: 06/12/2007

06/12/07

Signature

LAB EPISODE NUMBER: 8181
Date Received.....: 04/05/2007
Lab Project ID....: Q032106A

Pradeep Divvela
Quality Assurance Manager
(281) 292-5277
pradeep@a4scientific.com

EPAHO103000753

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. 8181

Client Name / Address: CKG Services

Project Manager: Zac McKaughan

Phone Number: 281-541-4829

Send Report to: CKG

Project Number:

Project Name: TBC Waste

Samplers (Signature)

P.O. Number

Client Sample ID	Date	Time	Station Location	Number of Containers	Matrix	TCLP Vol	TCLP Metal	TCLP Semi Vol	TPH	RCI		Client Remarks	For Lab Use Only: Lab Sample ID
Unknown	4/3	9:54		1	Solid	✓	✓	✓	✓	✓			8181-001
oil Cuttings	4/3	9:40		1	Solid	✓	✓	✓	✓				↓ -002

JS 4-5-07

Relinquished by (Signature)	Date / Time	Received by (Signature)	Date / Time	Lab Remarks:
	4/5 / 11:08			Regular TAT
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	
			04/05/07 1000	

Method of Shipment:

Distribution: Original accompanies shipment; Copy to coordinator and field files

PAGE : 00002

EPAHO103000754

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The Woodlands, TX 77380

LABORATORY REPORT

IGNITABILITY

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TRC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-1010
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: ET	DATE ANALYZED	: 04/09/07
ROOM TEMP.	: 72 DEGREES F		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Ignitability	1.00	DEGREES F	ND	DEGREES F	

QUALITY CONTROL DATA

PAGE: 00003

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The Woodlands, TX 77380

LABORATORY REPORT

CORROSIVITY pH

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-9045C
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: BT	DATE ANALYZED	: 04/09/07

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Corrosivity PH	1.00	UNITS	9.70	UNITS	

QUALITY CONTROL DATA

PAGE : 0006H

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The Woodlands, TX 77380

LABORATORY REPORT

REACTIVE CYANIDE (COLOROMETRIC)

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: S181.001
PROJECT NUMBER	: .0005	METHOD REFERENCE	: SW846-SEC.7.3.3
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: ET	DATE ANALYZED	: 04/12/07
DATE PREPPED	: 04/11/07	DILUTION	: 1
NaOH VOLUME	: 50 ML	SAMPLE WEIGHT	: 10 G

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Cyanide, reactive	0.050	MG/KG	ND	MG/KG	

QUALITY CONTROL DATA

PAGE : 00005

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

REACTIVE SULFIDE (COLOROMETRIC)

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-SEC.7.3.4
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: BT	DATE ANALYZED	: 04/12/07
DATE PREPPED	: 04/11/07	DILUTION	: 1
NaOH VOLUME	: 50 ML	SAMPLE WEIGHT	: 10 G

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Sulfide, reactive	1.0	MG/KG	ND	MG/KG	

QUALITY CONTROL DATA

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The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

% MOISTURE	:	ANALYST	: JL
DATE ANALYZED	: 04/10/07	DATE PREPPED	: 04/10/07
DILUTION	: 1	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B13694	INSTRUMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 16:48

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
1-Chlorooctane	50 MG/KG	70 - 130	123
o-Terphenyl	50 MG/KG	70 - 130	97

PAGE : 00007

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The Woodlands, TX 77380

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: OIL CUTTINGS
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.002
PROJECT NUMBER	: 0005	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

% MOISTURE	:	ANALYST	: JL
DATE ANALYZED	: 04/10/07	DATE PREPPED	: 04/10/07
DILUTION	: 1	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B13697	INSTROMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 19:07

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	20.0	MG/KG	129000	MG/KG	
TPH-(>nC28-nC35)	20.0	MG/KG	ND	MG/KG	
TPH-(nC6-nC12)	20.0	MG/KG	24500	MG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
1-Chlorooctane	50 MG/KG	70 - 130	183
o-Terphenyl	50 MG/KG	70 - 130	270

PAGE : 00008

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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	: OIL COTTINGSDL1
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.002DL1
PROJECT NUMBER	: 0005	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

% MOISTURE	:	ANALYST	: JL
DATE ANALYZED	: 04/12/07	DATE PREPPED	: 04/10/07
DILUTION	: 100	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B13699	INSTRUMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 16:48

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	2000	MG/KG	120000	MG/KG	
TPH-(>nC28-nC35)	2000	MG/KG	ND	MG/KG	
TPH-(nC6-nC12)	2000	MG/KG	27700	MG/KG	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
1-Chlorooctane	50 MG/KG	70 - 130	0
o-Terphenyl	50 MG/KG	70 - 130	0

EPAHO103000761

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1544 Sawdust Road, Suite 605
The Woodlands, TX 77380

LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: SP	DATE ANALYZED	: 04/10/2007
DILUTION	: 25	INSTRUMENT FILE	: C9743.D
INSTRUMENT ID	: C-5973	PRE-PREP ANALYST	: SP
PURGE VOLUME	: 20 mL	TCLP PREP. DATE	: 04/10/07
TIME ANALYZED	: 15:21		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,1-Dichloroethene	25	UG/L	ND	UG/L	
1,2-Dichloroethane	25	UG/L	ND	UG/L	
2-Butanone	120	UG/L	ND	UG/L	
Benzene	25	UG/L	ND	UG/L	
Carbon tetrachloride	25	UG/L	ND	UG/L	
Chlorobenzene	25	UG/L	ND	UG/L	
Chloroform	25	UG/L	ND	UG/L	
Tetrachloroethene	25	UG/L	ND	UG/L	
Trichloroethene	25	UG/L	ND	UG/L	
Vinyl chloride	25	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Dibromofluoromethane	250 UG/L	75 - 131	92
Toluene-d8	250 UG/L	68 - 125	101
1,2-Dichloroethane-d4	250 UG/L	62 - 139	82
4-Bromofluorobenzene	250 UG/L	75 - 125	89

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: OIL CUTTINGS
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.002
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 06/12/2007 10:48

ANALYST	: SP	DATE ANALYZED	: 04/10/2007
DILUTION	: 25	INSTRUMENT FILE	: C9744.D
INSTRUMENT ID	: C-5973	PRE-PREP ANALYST	: SP
PURGE VOLUME	: 20 mL	TCLP PREP. DATE	: 04/10/07
TIME ANALYZED	: 15:48		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,1-Dichloroethene	25	UG/L	ND	UG/L	
1,2-Dichloroethane	25	UG/L	ND	UG/L	
2-Butanone	120	UG/L	ND	UG/L	
Benzene	25	UG/L	ND	UG/L	
Carbon tetrachloride	25	UG/L	ND	UG/L	
Chlorobenzene	25	UG/L	ND	UG/L	
Chloroform	25	UG/L	ND	UG/L	
Tetrachloroethene	25	UG/L	ND	UG/L	
Trichloroethene	25	UG/L	ND	UG/L	
Vinyl chloride	25	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Dibromofluoromethane	250 UG/L	75 - 131	94
Toluene-d8	250 UG/L	68 - 125	102
1,2-Dichloroethane-d4	250 UG/L	62 - 139	80
4-Bromofluorobenzene	250 UG/L	75 - 125	91

EPAHO103000763

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1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: CRG SERVICES	CLIENT SAMPLE ID	: UNKNOWN
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.001
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 05/12/2007 10:48

ANALYST	: JL	DATE ANALYZED	: 04/10/2007
DATE EXTRACTED	: 04/10/07	DILUTION	: 1
EXTRACT VOLUME	: 1 mL	INSTROMENT FILE	: D6368.D
INSTRUMENT ID	:	PRE-PREP ANALYST	: CL
SAMPLE VOLUME	: 200 mL	TCLP PREP. DATE	: 04/09/07
TIME ANALYZED	: 15:18		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIERS
1,4-Dichlorobenzene	50	UG/L	ND	UG/L	
2,4,5-Trichlorophenol	120	UG/L	ND	UG/L	
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	UG/L	ND	UG/L	
Hexachlorobenzene	50	UG/L	ND	UG/L	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	UG/L	ND	UG/L	
Pyridine	50	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
2,4,6-Tribromophenol	375 UG/L	10 - 123	72
2-Fluorobiphenyl	250 UG/L	43 - 116	56
2-Fluorophenol	375 UG/L	21 - 100	17
Nitrobenzene-d5	250 UG/L	35 - 114	42
Phenol-d5	375 UG/L	10 - 94	14
Terphenyl-d14	250 UG/L	33 - 141	52

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LABORATORY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: OIL CUTTINGS
PROJECT NAME	: TBC	LAB SAMPLE ID	: 8181.002
PROJECT NUMBER	: 0005	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 04/03/2007	DATE RECEIVED	: 04/05/2007
SAMPLE MATRIX	: SOIL	PRINTED ON	: 04/12/2007 10:48

ANALYST	: JL	DATE ANALYZED	: 04/10/2007
DATE EXTRACTED	: 04/10/07	DILUTION	: 1
EXTRACT VOLUME	: 1 mL	INSTRUMENT FILE	: D6372.D
INSTRUMENT ID	:	PRE-PREP ANALYST	: CL
SAMPLE VOLUME	: 200 mL	TCLP PREP. DATE	: 04/09/07
TIME ANALYZED	: 17:42		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,4-Dichlorobenzene	50	UG/L	ND	UG/L	
2,4,5-Trichlorophenol	120	UG/L	ND	UG/L	
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	UG/L	ND	UG/L	
Hexachlorobenzene	50	UG/L	ND	UG/L	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	UG/L	ND	UG/L	
Pyridine	50	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
2,4,6-Tribromophenol	375 UG/L	10 - 123	91
2-Fluorobiphenyl	250 UG/L	43 - 116	101
2-Fluorophenol	375 UG/L	21 - 100	66
Nitrobenzene-d5	250 UG/L	35 - 114	91
Phenol-d5	375 UG/L	10 - 94	148
Terphenyl-d14	250 UG/L	33 - 141	54

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Phone: (281) 292-5277
Fax: (281) 292-2481

Dear Mr. Zac,

This document will serve as an official Results report for the TCLP_RCRA_Metals Test on the following two samples.

Lab Sample ID	8181.001	8181.002	ICPBLKE2
Client Sample ID	Unknown	Oil Cuttings	ICPBLKE2
ELEMENT	CONC. (mg/L)		
Ag 338.289	ND	ND	ND
Al 308.215	ND	0.92993	ND
As 188.979	ND	0.024226	ND
Ba 233.527	0.133921	2.1064	ND
Be 313.107	ND	0.00245	ND
Ca 315.887	18.6049	707.228	ND
Cd 226.502	ND	0.001441	ND
Co 228.616	ND	0.012047	ND
Cr 267.716	ND	ND	ND
Cu 324.752	0.03502	0.028985	ND
Fe 273.955	0.114234	18.5758	ND
Mg 279.077	1.12547	26.7497	ND
Mn 257.610	0.014473	4.03537	ND
Na 330.237	2414.67	1982.3	ND
Ni 232.003	0.010242	0.031799	ND
Pb 220.353	ND	0.067656	ND
Sb 206.836	ND	ND	ND
Se 196.026	0.101838	0.042304	ND
Ti 190.801	0.016749	ND	ND
V 292.402	ND	0.014022	ND
Zn 206.200	0.162085	0.408872	ND
K 766.490	8.13775	18.0233	ND
Hg	ND	ND	ND

Please feel free to contact me or Reddy Pakanati if additional information is needed

Yours truly,

06/12/07

Pradeep Divvela
Quality Assurance Manager
A4 Scientific Inc.
Pradeep@a4scientific.com

PAGE : 00014

QC RESULTS

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LCS/LCSD SUMMARY REPORT

IGNITABILITY

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:48

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-1010

LAB CONTROL SAMPLE
LCS SAMPLE ID : IGLCS0409
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/07
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : IGLCS0409D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/07
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.
Ignitability	DEGRE	82.0	82.0	81.0	81.0	99	99	0.0	20	98 - 102

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

PAGE : 00016

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LABORATORY REPORT

IGNITABILITY

CLIENT NAME : CKG SERVICES
PROJECT NAME : TBC
PROJECT NUMBER : 0005
PRINTED ON : 06/12/2007 10:48

PARAMETER: Ignitability

CLIENT SAMPLE ID	UNKNOWN	PREP BLANK
SAMPLE ID	8181.001	IGBLK0409
SAMPLE MATRIX	SOIL	
DATE SAMPLED	04/03/2007	
DATE RECEIVED	04/05/2007	
METHOD REFERENCE	SW846-1010	SW846-1010
QUANTITATION LIMIT	1	1
RESULTS	ND	ND
UNITS	DEGREES F	DEGREES F
QUALIFIER		
ANALYST	BT	BT
DATE ANALYZED	04/09/07	04/09/07
ROOM TEMP.	72 DEGREES F	72 DEGREES F
QC BATCH ID	IGBLK0409	IGBLK0409
PRE-PREP BLANK ID		
PREP BLANK ID	IGBLK0409	IGBLK0409
LCS ID	IGLCS0409	
LCSD ID	IGLCS0409D	
DUP ID	8181.001DUP1	

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LCS/LCSD SUMMARY REPORT

CORROSIVITY pH

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:48

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-9045C

LAB CONTROL SAMPLE
LCS SAMPLE ID : CRLCS229
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/07
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : CRLCS229D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/09/07
INSTRUMENT FILE :

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	QC LIMITS RPD LIMIT	QC LIMITS REC.
Corrosivity PH	UNITS	7.00	7.00	7.01	7.03	100	100	0.0	0	98 - 102

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

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LABORATORY REPORT

CORROSIVITY pH

CLIENT NAME	: CKG SERVICES	PROJECT NUMBER	: 0005
PROJECT NAME	: TBC	PRINTED ON	: 06/12/2007 10:48

PARAMETER: Corrosivity PH

CLIENT SAMPLE ID	**UNKNOWN**
SAMPLE ID	**8181.001**
SAMPLE MATRIX	SOIL
DATE SAMPLED	04/03/2007
DATE RECEIVED	04/05/2007
METHOD REFERENCE	SW846-9045C
QUANTITATION LIMIT	1
RESULTS	9.70
UNITS	UNITS
QUALIFIER	
ANALYST	BT
DATE ANALYZED	04/09/07
QC BATCH ID	CRBLK229
PRE-PREP BLANK ID	
PREP BLANK ID	
LCS ID	CRLCS229
LCSD ID	CRLCS229D
DUP ID	8181.001DUP1

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LCS/LCSD SUMMARY REPORT

REACTIVE CYANIDE (COLOROMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:48

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-SEC.7.3.3

LAB CONTROL SAMPLE
LCS SAMPLE ID : RCNLCS0412
CLIENT SAMPLE ID :
DATE ANALYZED : 04/12/07
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : RCNLCS0412D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/12/07
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.
Cyanide, reactive	MG/KG	0.500	0.500	0.350	0.400	70	80	13.3	20	50 - 150

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

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LABORATORY REPORT

REACTIVE CYANIDE (COLOROMETRIC)

CLIENT NAME : CKG SERVICES
PROJECT NAME : TBC
PROJECT NUMBER : 0005
PRINTED ON : 06/12/2007 10:48

PARAMETER: Cyanide, reactive

CLIENT SAMPLE ID	UNKNOWN	PREP BLANK
SAMPLE ID	8161.001	RCN0412
SAMPLE MATRIX	SOIL	
DATE SAMPLED	04/03/2007	
DATE RECEIVED	04/05/2007	
METHOD REFERENCE	SW846-SEC.7.3.3	SW846-SEC.7.3.3
QUANTITATION LIMIT	0.05	0.05
RESULTS	ND	ND
UNITS	MG/KG	MG/KG
QUALIFIER		
ANALYST	BT	BT
DATE ANALYZED	04/12/07	04/12/07
DATE PREPPED	04/11/07	04/11/07
DILUTION	1	1
NaOH VOLUME	50 ML	50 ML
SAMPLE WEIGHT	10 G	10 G
QC BATCH ID	RCNBLK0412	RCNBLK0412
PRE-PREP BLANK ID		
PREP BLANK ID	RCN0412	RCN0412
LCS ID	RCNLCS0412	
LCSD ID	RCNLCS0412D	
MS ID		
MSD ID		
DUP ID	8161.001DUP1	

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LCS/LCSD SUMMARY REPORT

REACTIVE SULFIDE (COLOROMETRIC)

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:49

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-SEC.7.3.4

LAB CONTROL SAMPLE
LCS SAMPLE ID : RSLCS0412
CLIENT SAMPLE ID :
DATE ANALYZED : 04/12/07
INSTRUMENT FILE :

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : RSLCS0412D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/12/07
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.
Sulfide, reactive	MG/KG	0.500	0.500	0.360	0.345	72	69	4.3	50	50 - 150

* Indicate values outside of QC limits

RPD : 0 out of 1 outside limits
Spike Recovery : 0 out of 2 outside limits

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LABORATORY REPORT

REACTIVE SULFIDE (COLOROMETRIC)

CLIENT NAME	: CKG SERVICES	PROJECT NUMBER	: 0005
PROJECT NAME	: TBC	PRINTED ON	: 06/12/2007 10:48

PARAMETER: Sulfide, reactive

CLIENT SAMPLE ID	UNKNOWN	PREP BLANK
SAMPLE ID	8181.001	RSB0412
SAMPLE MATRIX	SOIL	
DATE SAMPLED	04/03/2007	
DATE RECEIVED	04/05/2007	
METHOD REFERENCE	SW846-SEC.7.3.4	SW846-SEC.7.3.4
QUANTITATION LIMIT	1	1
RESULTS	*ND*	*ND*
UNITS	MG/KG	MG/KG
QUALIFIER		
ANALYST	BT	BT
DATE ANALYZED	04/12/07	04/12/07
DATE PREPPED	04/11/07	04/11/07
DILUTION	1	1
NaOH VOLUME	50 ML	50 ML
SAMPLE WEIGHT	10 G	10 G
QC BATCH ID	RSB0412	RSB0412
PRE-PREP BLANK ID		
PREP BLANK ID	RSB0412	RSB0412
LCS ID	RSLC90412	
LCSD ID	RSLCS0412D	
MS ID		
MSD ID		
DUP ID	8181.001DUP1	

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LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: TPHB583
PROJECT NUMBER	:	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 06/12/2007 10:48

% MOISTURE	:	ANALYST	: JL
DATE ANALYZED	: 04/10/07	DATE PREPPED	: 04/10/07
DILUTION	: 1	EXTRACT VOLUME	: 10 ML
INSTRUMENT FILE	: B13693	INSTRUMENT ID	: B-5890
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 16:01

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
1-Chlorooctane	50 MG/KG	70 - 130	122
o-Terphenyl	50 MG/KG	70 - 130	94

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LCS/LCSD SUMMARY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:46

SAMPLE MATRIX : SOLID
METHOD REFERENCE : TNRCC-1005

LAB CONTROL SAMPLE
LCS SAMPLE ID : TPHL593
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/07
INSTRUMENT FILE : B13691

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : TPHL593D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/07
INSTRUMENT FILE : B13692

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	250	283	293	113	117	3.5	30	75 - 125
TPH-(nC6-nC12)	MG/KG	250	250	284	273	114	109	4.5	30	75 - 125

* Indicate values outside of QC limits

RPD : 0 out of 2 outside limits
Spike Recovery : 0 out of 4 outside limits

PAGE : 00025

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LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: VBLK81
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 06/12/2007 10:48

ANALYST	: SP	DATE ANALYZED	: 04/10/2007
DILUTION	:	INSTRUMENT FILE	: C9737.D
INSTRUMENT ID	: C-5973	PURGE VOLUME	: 20 mL
TIME ANALYZED	: 12:38		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,1-Dichloroethene	20	UG/L	ND	UG/L	
1,2-Dichloroethane	20	UG/L	ND	UG/L	
2-Butanone	100	UG/L	ND	UG/L	
Benzene	20	UG/L	ND	UG/L	
Carbon tetrachloride	20	UG/L	ND	UG/L	
Chlorobenzene	20	UG/L	ND	UG/L	
Chloroform	20	UG/L	ND	UG/L	
Tetrachloroethene	20	UG/L	ND	UG/L	
Trichloroethene	20	UG/L	ND	UG/L	
Vinyl chloride	20	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Dibromofluoromethane	200 UG/L	75 - 131	91
Toluene-d8	200 UG/L	68 - 125	104
1,2-Dichloroethane-d4	200 UG/L	62 - 139	76
4-Bromofluorobenzene	200 UG/L	75 - 125	89

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LCS/LCSD SUMMARY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:48

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-8260B

LAB CONTROL SAMPLE
LCS SAMPLE ID : VLCS81
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/2007
INSTRUMENT FILE : C9738.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : VLCS81D
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/2007
INSTRUMENT FILE : C9739.D

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
1,1-Dichloroethene	UG/L	200	200	212	207	106	104	1.9	25	50 - 150
1,2-Dichloroethane	UG/L	200	200	194	185	97	93	4.2	25	50 - 150
2-Butanone	UG/L	1000	1000	1180	1220	118	122	3.3	25	50 - 150
Benzene	UG/L	200	200	231	223	116	112	3.5	25	76 - 127
Carbon tetrachloride	UG/L	200	200	209	206	105	103	1.9	25	50 - 150
Chlorobenzene	UG/L	200	200	220	213	110	107	2.8	25	75 - 130
Chloroform	UG/L	200	200	204	199	102	100	2.0	25	50 - 150
Tetrachloroethene	UG/L	200	200	224	226	112	113	0.9	25	50 - 150
Trichloroethene	UG/L	200	200	221	218	111	109	1.8	25	71 - 120
Vinyl chloride	UG/L	200	200	121	120	61	60	1.7	25	50 - 150

* Indicate values outside of QC limits

RPD : 0 out of 10 outside limits
Spike Recovery : 0 out of 20 outside limits

PAGE : 00027

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LABORATORY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: SBLK40
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 06/12/2007 10:48

ANALYST	: JL	DATE ANALYZED	: 04/10/2007
DATE EXTRACTED	: 04/10/07	DILUTION	: 1
EXTRACT VOLUME	: 1 mL	INSTRUMENT FILE	: D6365.D
INSTRUMENT ID	:	SAMPLE VOLUME	: 200 mL
TIME ANALYZED	: 12:30		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,4-Dichlorobenzene	50	UG/L	ND	UG/L	
2,4,5-Trichlorophenol	120	UG/L	ND	UG/L	
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	UG/L	ND	UG/L	
Hexachlorobenzene	50	UG/L	ND	UG/L	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	UG/L	ND	UG/L	
Pyridine	50	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED		QC RECOVERY LIMITS	%RECOVERY
2,4,6-Tribromophenol	375	UG/L	10 - 123	62
2-Fluorobiphenyl	250	UG/L	43 - 116	58
2-Fluorophenol	375	UG/L	21 - 100	45
Nitrobenzene-d5	250	UG/L	35 - 114	64
Phenol-d5	375	UG/L	10 - 94	37
Terphenyl-d14	250	UG/L	33 - 141	49

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LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: ZHEBLKD1
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 06/12/2007 10:48

ANALYST	: SP	DATE ANALYZED	: 04/10/2007
DILUTION	: 5	INSTRUMENT FILE	: C9746.D
INSTRUMENT ID	: C-5973	PRE-PREP ANALYST	: SP
PURGE VOLUME	: 20 mL	TCLP PREP. DATE	: 04/10/07
TIME ANALYZED	: 18:01		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUAL FLAG
1,1-Dichloroethene	5.0	UG/L	ND	UG/L	
1,2-Dichloroethane	5.0	UG/L	ND	UG/L	
2-Butanone	25	UG/L	ND	UG/L	
Benzene	5.0	UG/L	ND	UG/L	
Carbon tetrachloride	5.0	UG/L	ND	UG/L	
Chlorobenzene	5.0	UG/L	ND	UG/L	
Chloroform	5.0	UG/L	ND	UG/L	
Tetrachloroethene	5.0	UG/L	ND	UG/L	
Trichloroethene	5.0	UG/L	ND	UG/L	
Vinyl chloride	5.0	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Dibromofluoromethane	50 UG/L	75 - 131	94
Toluene-d8	50 UG/L	69 - 125	102
1,2-Dichloroethane-d4	50 UG/L	62 - 139	83
4-Bromofluorobenzene	50 UG/L	75 - 125	92

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The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 06/12/2007 10:48

SAMPLE MATRIX : SOLID
METHOD REFERENCE : SW846-8270C

LAB CONTROL SAMPLE
LCS SAMPLE ID : SLCS4U
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/2007
INSTRUMENT FILE : b6366.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : SLCS4UD
CLIENT SAMPLE ID :
DATE ANALYZED : 04/10/2007
INSTRUMENT FILE : b6367.D

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS %RECOVERY (%)	LCSD %RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
1,4-Dichlorobenzene	UG/L	250	250	146	147	59	59	1.7	28	36 - 97
2,4,5-Trichlorophenol	UG/L	250	250	168	154	67	62	7.8	50	9 - 103
2,4,6-Trichlorophenol	UG/L	250	250	160	153	63	61	3.2	50	9 - 103
2,4-Dinitrotoluene	UG/L	250	250	144	137	58	55	5.3	38	24 - 96
2-Methylphenol	UG/L	250	250	170	173	68	69	1.5	50	23 - 97
3+4-Methylphenol	UG/L	500	500	176	177	35	35	0.0	50	10 - 120
Hexachlorobenzene	UG/L	250	250	143	141	57	56	1.8	50	36 - 97
Hexachlorobutadiene	UG/L	250	250	174	166	70	66	5.9	50	30 - 140
Hexachloroethane	UG/L	250	250	153	154	61	62	1.6	50	30 - 140
Nitrobenzene	UG/L	250	250	165	163	66	65	1.5	50	35 - 120
Pentachlorophenol	UG/L	250	250	182	182	73	73	0.0	50	9 - 103
Pyridine	UG/L	250	250	129	134	52	54	3.8	50	9 - 103

* Indicate values outside of QC limits

RPD : 0 out of 12 outside limits
Spike Recovery : 0 out of 24 outside limits

EPAHO103000782

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TCLP-SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: TCLPBLK0409
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 06/12/2007 10:48

ANALYST	: BT	DATE ANALYZED	: 04/20/07
DATE EXTRACTED	: 04/10/07	DILUTION	: 1
EXTRACT VOLUME	: 1 mL	INSTRUMENT FILE	:
INSTRUMENT ID	: D-5973	PRE-PREP ANALYST	: CL
SAMPLE VOLUME	: 200 mL	TCLP PREP. DATE	: 04/09/07
TIME ANALYZED	:		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,4-Dichlorobenzene	50	UG/L	ND	UG/L	
2,4,5-Trichlorophenol	120	UG/L	ND	UG/L	
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	UG/L	ND	UG/L	
Hexachlorobenzene	50	UG/L	ND	UG/L	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	UG/L	ND	UG/L	
Pyridine	50	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	% RECOVERY LIMITS	% RECOVERY
2,4,6-Tribromophenol	375 UG/L	10 - 123	
2-Fluorobiphenyl	250 UG/L	43 - 116	
2-Fluorophenol	375 UG/L	21 - 100	
Nitrobenzene-d5	250 UG/L	35 - 114	
Phenol-d5	375 UG/L	10 - 94	
Terphenyl-d14	250 UG/L	33 - 141	

END OF REPORT

EPAHO103000784

QUALITY VALVE <2268>

EPAHO103000785

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Zac**

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 # 2268

Generator: Quality Valve and Machine Works
Address: 233 East FM 2821
Hunstville, TX 77320

Waste Information

Name of Waste: Non-hazardous parts washer solution
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Waste parts washer solution using a mild mixture of Rustkleen 5075 (mild sodium hydroxide solution pH 9-12)
Color: Varies **Odor:** None **pH:** 9-12
Physical State:
Incompatibilities: acidic material
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.

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:	Quality Valve and Machine Works		
Address:	233 East FM 2821		
City, State, Zip:	Huntsville, TX 77320		
Contact:	Zac	**Title:**	Agent for Quality Valve
Phone No:	936-483-3662	**Fax No:**	936-483-3674
24/hr Phone:	281-541-4829		
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:	~~Hunstville, TX 77320~~ Montgomery TX, 77316		
Contact:	Zac	**Title:**	Agent for Quality Valve
Phone No:	281-541-4829	**Fax No:**	936-483-3674

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Parts washer solution
Detailed Description of Process Generating Waste: Waste parts washer solution using a mild mixture of Rustkleen 5075 (Mild sodium hydroxide solution PH 9-12).

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

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.3 **Density:** 9 lbs/gal

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

Container Type:	☐	**Drum**	☐	**Tote**	☒	**Truck**	☐ **Other (explain)**
Container Size:		____		____		1-5000	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQ1191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Parts Washer Solution
Class: Na **UN/NA:** Na **PG:** Na **RQ:**

Flash Point >200	**pH** 9-12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-5%
Oil&Grease <5%mg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

EPAHO103000787

SECTION 4: Physical and Chemical Data

COMPONENTS LABEL	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	75-90	%
Rustkleen 6075	10-25	%
Metal Paticles	0-1	%

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 and TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Acidic Material

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: 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:** 7/31/07

Printed Name/Title: PLT MRG Gene Dockl

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	Trans $850.00 / upon arrival check
Date: 8-2-07 Approved Rejected	Liq-.25/gal PH, Solids, visible organic
Approval Number: 2268	FSC $170.00
	Forward to Newpark.
	IL

EPAHO103000788

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

EPAHO103000789

(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.

EPAHO103000790

A4 Scientific

The Woodlands, TX 77380
1544 Sawdust Road, Suite 505

LABORATORY REPORT

TCLP METALS

CLIENT NAME : CKG SERVICES
PROJECT NAME : QUALITY VALVE
PROJECT NUMBER :
DATE SAMPLED : 07/10/2007
SAMPLE MATRIX : WATER

CLIENT SAMPLE ID : SAMPLE 1
LAB SAMPLE ID : 8400.001
DATE RECEIVED : 07/11/2007
PRINTED ON : 07/25/2007 14:30
% MOISTURE :

ANALYTE	METHOD	DATE PREPARED	DATE ANALYZED	DILUTION	QUANTITATION LIMIT	RESULT	Q	ANALYST
Arsenic, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.025 MG/L	1.43 MG/L		BT
Barium, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.05 MG/L	0.935 MG/L		BT
Cadmium, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.025 MG/L	0.082 MG/L		BT
Chromium, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.05 MG/L	1.63 MG/L		BT
Lead, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.015 MG/L	2.63 MG/L		BT
Mercury, TCLP	SW846-7470A	07/24/07	07/25/07	1	0.0002 MG/L	ND MG/L		BT
Selenium, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.025 MG/L	0.125 MG/L		BT
Silver, TCLP	SW846-6010B	07/21/07	07/24/07	5	0.05 MG/L	ND MG/L		BT

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: SAMPLE 1
PROJECT NAME	: QUALITY VALVE	LAB SAMPLE ID	: 8400.001
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 07/10/2007	DATE RECEIVED	: 07/11/2007
SAMPLE MATRIX	: WATER	PRINTED ON	: 07/17/2007 15:33

ANALYST	: RS	DATE ANALYZED	: 07/16/07
DATE EXTRACTED	: 07/16/07	DILUTION	: 1
EXTRACT VOLUME	: 1 mL	INSTRUMENT FILE	: D6692
INSTRUMENT ID	: D-5973	PRE-PREP ANALYST	: CL
SAMPLE VOLUME	: 50 mL	TCLP PREP. DATE	: 07/16/07
TIME ANALYZED	: 14:00		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,4-Dichlorobenzene	200	UG/L	ND	UG/L	
2,4,5-Trichlorophenol	500	UG/L	ND	UG/L	
2,4,6-Trichlorophenol	200	UG/L	ND	UG/L	
2,4-Dinitrotoluene	200	UG/L	ND	UG/L	
3-Methylphenol	200	UG/L	ND	UG/L	
3+4-Methylphenol	200	UG/L	ND	UG/L	
Hexachlorobenzene	200	UG/L	ND	UG/L	
Hexachlorobutadiene	200	UG/L	ND	UG/L	
Hexachloroethane	200	UG/L	ND	UG/L	
Nitrobenzene	200	UG/L	ND	UG/L	
Pentachlorophenol	500	UG/L	ND	UG/L	
Pyridine	200	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
2,4,6-Tribromophenol	1500 UG/L	10 - 123	44
2-Fluorobiphenyl	1000 UG/L	43 - 116	49
2-Fluorophenol	1500 UG/L	21 - 100	26
Nitrobenzene-d5	1000 UG/L	35 - 114	37
Phenol-d5	1500 UG/L	10 - 94	14
Terphenyl-d14	1000 UG/L	33 - 141	50

A4 Scientific

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME	: CKG SERVICES	CLIENT SAMPLE ID	: SAMPLE 1
PROJECT NAME	: QUALITY VALVE	LAB SAMPLE ID	: 8400.001
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 07/10/2007	DATE RECEIVED	: 07/11/2007
SAMPLE MATRIX	: WATER	PRINTED ON	: 07/25/2007 14:38

ANALYST	: SP	DATE ANALYZED	: 07/13/2007
DILUTION	: 5	INSTROMENT FILE	: C1007.D
INSTRUMENT ID	: C-5973	PRE-PREP ANALYST	: SP
PURGE VOLUME	: 20 mL	TCLP PREP. DATE	: 07/12/07
TIME ANALYZED	: 14:03		

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
1,1-Dichloroethene	5.0	UG/L	ND	UG/L	
1,2-Dichloroethane	5.0	UG/L	ND	UG/L	
2-Butanone	25	UG/L	ND	UG/L	
Benzene	5.0	UG/L	ND	UG/L	
Carbon tetrachloride	5.0	UG/L	ND	UG/L	
Chlorobenzene	5.0	UG/L	ND	UG/L	
Chloroform	5.0	UG/L	ND	UG/L	
Tetrachloroethene	5.0	UG/L	ND	UG/L	
Trichloroethene	5.0	UG/L	ND	UG/L	
Vinyl chloride	5.0	UG/L	ND	UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
1,2-Dichloroethane-d4	50 UG/L	52 - 139	114
Toluene-d8	50 UG/L	72 - 130	102
4-Bromofluorobenzene	50 UG/L	72 - 125	93
Dibromofluoromethane	50 UG/L	72 - 125	99

MATERIAL SAFETY DATA SHEET
May be used to comply with
Administration
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

(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*	*(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.*
RUSTKLEEN 5075	

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 08/31/06
	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)*
SODIUM HYDROXIDE CAS #1310732	2 mg/m^3	2 mg/m^3-C		

Section III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H_2O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate =1)	N/A

Solubility in Water:
Complete

Appearance and Odor:
Light tan granular solid, practically odorless..

Section IV — FIRE and EXPLOSION HAZARD DATA

Flash Point *(Method Used)*	Flammable Limits	LEL	UEL
N/A	N/A		

Extinguishing Media
N/A

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards
N/A

Section V — REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility *(Materials to Avoid)*
Organic materials and concentrated acids; magnesium, aluminum, tin, chromium, brass, copper.

Hazardous Decomposition or Byproducts
None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Yes	Skin	Yes	Ingestion?	Yes

Health Hazards *(Acute and Chronic)*

Can cause severe burns to eyes and skin. Dust highly irritating to respiratory tract. Ingestion can severely damage gastrointestinal tract and other tissues contacted. Prolonged skin contact can destroy tissue.

Carcinogenicity:	NTP?	No	IARC Monographs?	No	OSHA Regulated?	No

Signs and Symptoms of Exposure:

Stinging and burning sensation to skin and eyes. Coughing, possible vomiting.

Medical Conditions

Generally Aggravated by Exposure:

No data available.

Emergency and First Aid Procedures:

EYES: Flush with water for at least 15 minutes. Get medical attention. SKIN: Flush with water. Get medical attention. INHALATION: Remove to fresh air. INGESTION: If conscious, drink a quart of water. DO NOT INDUCE VOMITING. Get medical attention.

Section VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material is Released or Spilled:

Use protective clothing. Scoop up and recover if possible, or place in suitable containers for disposal. Neutralize spill area and flush with large amounts of water. Large Spills: Neutralize spill area. Use vacuum truck to pick up neutralized material for disposal.

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 oxidizers. Keep container closed when not in use.

Other Precautions:

Wash hands and face thoroughly after using. Always add material slowly to water to avoid splattering. Heat will be generated upon addition to water.

Section VIII CONTROL MEASURES

Respiratory Protection *(Specify Type)*:

NIOSH-MSHA approved dust type respirator. See 29 CFR 1910.134.

Ventilation

Local Exhaust:	Special:
Sufficient to keep dust level down.	
Mechanical *(General)*:	Other:

Protective Gloves:	Eye Protection:
Rubber or PVC	Chemical safety goggles and/or face shield.

Other Protective Clothing or Equipment:

Rubber apron, safety shoes, eye-wash fountain, safety shower.

Work/Hygienic Practices:

Wash hands and face after using. Launder contaminated clothing before re-use.

EPAHO103000795

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): _____

Date: 7/30/07

To: Zac

936-756-1226

From: **Dan Bowman**
CES Environmental Services, Inc.
Mobile Phone: (713) 854-6150

Notes: Zac,

Tell him the recieving facility requires $550 min. The trans is ~ 12 hours ~~FTB~~ because this is a metal subcatagory waste water w/ high levels of metals metals. This material has to go to a facility 6 hrs round trip from Houston plus the additional hours to Hunstville for load.

Dan

Show him Part A on pg 3 of profile

2269
Hydrochem LaPorte <2269>

EPAHO103000797

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Curtis Baker**

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 # 2269

Generator: Hydrochem La Porte @ HEB
Address: 4625 Windfern
Houston, TX 77080

Waste Information

Name of Waste: Activated carbon
TCEQ Waste Code #: CESQ4041
Container Type: vac box
Detailed Description of Process Generating Waste:
Activated carbon from filtering City of Houston Water
Color: black **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
none

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:	Hydrochem @ HEB		
Address:	4625 Windfern		
City, State, Zip:	Houston, TX 77080		
Contact:	Curtis Baker	**Title:**	Account Manager
Phone No:	281-470-0411	**Fax No:**	281-470-0653
24/hr Phone:	832-414-9889		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Hydrochem Inc		
Address:	620 South 16th Street		
City, State, Zip:	La Porte, TX 77571		
Contact:	Curtis baker	**Title:**	Account Manager
Phone No:	281-470-0411	**Fax No:**	281-470-0653

SECTION 3: General Description of the Waste

Name of Waste: Activated Carbon
Detailed Description of Process Generating Waste: activated carbon from filtering City of Houston Water

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

Color: Black **Odor:** none

Specific Gravity (water=1): 1.2 **Density:** 8.45 lbs/gal

Layers: ☒ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain) vacuum box
Container Size:

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:**
Texas State Waste Code No: CESQ4041
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

Aug 01 2007 10:50AM HYDROCHEM#101 2814700411 p.2

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Activated Carbon	95-98	%
Debris (ppe, hose)	0-2%	%

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: 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 Baker **Date:** 7-31-07

Printed Name/Title: Curtis Baker

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Robert Langer Date: 8-2-07 (Approved) Rejected Approval Number: 2269	Reduced load $75/yard, Permatt OS

EPAHO103000800

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

EPAHO103000801

(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.

2270
ROYAL CAR WASH <2270>

EPAHO10300803

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Malthi**

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 # 2270

Generator: Royal Car Wash
Address: 5600 S Gessner
Houston, TX 77036

Waste Information

Name of Waste: Waste sludge from sampling well
TCEQ Waste Code #: CESQ5192
Container Type:
Detailed Description of Process Generating Waste:
Sludge generated from a monitoring well checking for gas / benzene exposure
Color: varies **Odor:** none **pH:** 4-10
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.

DB
+ Profiles

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:	Royal Car Wash		
Address:	5600 S. Gessner		
City, State, Zip:	Houston, TX 77036		
Contact:	Mlthi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322
24/hr Phone:	713-947-1055		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Bandy and Associates		
Address:	11710 Almeda-Genoa Rd		
City, State, Zip:	Houston, TX 77034		
Contact:	Mathi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322

SECTION 3: General Description of the Waste

Name of Waste: Waste sudge from sampling well
Detailed Description of Process Generating Waste: Sludge generated from a monitoring well checking for gas/benzene exposure.

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

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.5 **Density:** 10 lbs/gal

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

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 G	____		____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 8 **Other:** ____
Texas State Waste Code No: CESQ5192
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Sludge
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >210	**pH** 4-10	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 84%
Oil&Grease NDmg/l	**TOC** <5000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** NDmg/l

EPAHO103000805

SECTION 4: Physical and Chemical Data

COMPONENTS LIST	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Dirt/Sludge	80-90	%
Water	10-20	%

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.
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: Benzene
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
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: Jim Costello Jr. **Date:** JULY 31, 2007

Printed Name/Title: JIM COSTELLO

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Barbara Ohanga	**Process Facility Information:**
Date: 8-3-07 (Approved) Rejected	Trans $275
Approval Number: 2270	Liq-$65/dm
	Sludge $55/dm
	FSC ISL

EPAHO103000806

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

EPAHO103000807

(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.

EPAHO103000808

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

06/04/07

Technical Report for

Bandy & Associates, Inc.

Royal Car Wash

307070// 5600 S. Gessner Houston, TX

Accutest Job Number: T17570

Sampling Date: 05/22/07

Report to:

Bandy and Associates

sbandy@pdq.net

ATTN: Ms. Malathi Krishnan

Total number of pages in report: 54

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino
Laboratory Manager

Client Service contact: Agnes Vicknair 713-271-4700

ACCUTEST LABORATORIES 50 YEARS 1956-2006

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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EPAHO103000810

Sample Summary

Bandy & Associates, Inc.

Job No: T17570

Royal Car Wash
Project No: 307070// 5600 S. Gessner Houston, TX

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
T17570-1	05/22/07	00:00	MK	05/23/07	SO	Soil	S-1 SOIL, COMPOSITE FROM DRUMS
T17570-2	05/22/07	00:00	MK	05/23/07	AQ	Water	S-1 WATER COMPOSITE FROM DRUMS

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

EPAHO103000811

Sample Results

Report of Analysis

EPAHO103000812

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 SOIL, COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-1	Date Sampled:	05/22/07
Matrix:	SO - Soil	Date Received:	05/23/07
Method:	SW846 8260B	Percent Solids:	83.8
Project:	Royal Car Wash		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0031146.D	1	05/27/07	JH	n/a	n/a	VZ1609
Run #2							

	Initial Weight	Final Volume
Run #1	5.23 g	5.0 ml
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.7	1.6	ug/kg	
108-88-3	Toluene	ND	5.7	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.7	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	17	4.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.7	1.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-137%
2037-26-5	Toluene-D8	107%		88-147%
460-00-4	4-Bromofluorobenzene	107%		82-154%
17060-07-0	1,2-Dichloroethane-D4	95%		62-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

EPAHO103000813

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 SOIL, COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-1	Date Sampled:	05/22/07
Matrix:	SO - Soil	Date Received:	05/23/07
Method:	TNRCC 1005 TX1005	Percent Solids:	83.8
Project:	Royal Car Wash		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IF16158.D	1	05/24/07	RR	05/24/07	OP7502	GIF563
Run #2							

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C6-C12)	ND	29	7.7	mg/kg	
	TPH (>C12-C28)	ND	29	3.4	mg/kg	
	TPH (>C28-C35)	ND	29	3.4	mg/kg	
	TPH (C6-C35)	ND	29	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	109%		40-155%
98-08-8	aaa-Trifluorotoluene	105%		40-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

EPAHO103000814

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 SOIL, COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-1	Date Sampled:	05/22/07
Matrix:	SO - Soil	Date Received:	05/23/07
		Percent Solids:	83.8
Project:	Royal Car Wash		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	<0.20			0.20	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Barium	2.2	D005	100	1.0	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Beryllium	<0.0050			0.0050	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Cadmium	<0.0050	D006	1.0	0.0050	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Chromium	<0.010	D007	5.0	0.010	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Lead	<0.50	D008	5.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Mercury	<0.0020	D009	0.20	0.0020	mg/l	1	06/01/07	06/01/07	NS	SW846 7470A [2]	SW846 7470A [4]
Nickel	<0.040			0.040	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Selenium	<0.50	D010	1.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [5]
Silver	<0.010	D011	5.0	0.010	mg/l	1	06/01/07	06/02/07	NS	SW846 6010B [3]	SW846 3010A [6]

(1) Instrument QC Batch: MA2969
(2) Instrument QC Batch: MA2970
(3) Instrument QC Batch: MA2971
(4) Prep QC Batch: MP6227
(5) Prep QC Batch: MP6228
(6) Prep QC Batch: MP6236

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

EPAHO103000815

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 SOIL, COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-1	Date Sampled:	05/22/07
Matrix:	SO - Soil	Date Received:	05/23/07
		Percent Solids:	83.8
Project:	Royal Car Wash		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Ignitability (Flashpoint)	>210		Deg. F	1	06/04/07 11:00	TW	SW846 1010
Solids, Percent	83.8		%	1	05/29/07	RM	EPA 160.3 M

RL = Reporting Limit

EPAHO103000816

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 WATER COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-2	Date Sampled:	05/22/07
Matrix:	AQ - Water	Date Received:	05/23/07
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Royal Car Wash		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0127892.D	1	05/25/07	JH	n/a	n/a	VB1407
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		73-139%
17060-07-0	1,2-Dichloroethane-D4	75%		66-139%
2037-26-5	Toluene-D8	96%		77-148%
460-00-4	4-Bromofluorobenzene	102%		84-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

EPAHO103000817

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 WATER COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-2	Date Sampled:	05/22/07
Matrix:	AQ - Water	Date Received:	05/23/07
Method:	TNRCC 1005 TX1005	Percent Solids:	n/a
Project:	Royal Car Wash		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IF16224.D	1	05/29/07	RR	05/29/07	OP7513	GIF564
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	3.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C6-C12)	ND	2.5	0.67	mg/l	
	TPH (>C12-C28)	ND	2.5	0.31	mg/l	
	TPH (>C28-C35)	ND	2.5	0.31	mg/l	
	TPH (C6-C35)	ND	2.5	0.31	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	112%		45-155%
98-08-8	aaa-Trifluorotoluene	95%		36-137%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

EPAHO103000818

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1 WATER COMPOSITE FROM DRUMS		
Lab Sample ID:	T17570-2	Date Sampled:	05/22/07
Matrix:	AQ - Water	Date Received:	05/23/07
		Percent Solids:	n/a
Project:	Royal Car Wash		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	<0.20			0.20	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Barium	<1.0	D005	100	1.0	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Beryllium	<0.0050			0.0050	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Cadmium	<0.0050	D006	1.0	0.0050	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Chromium	<0.010	D007	5.0	0.010	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Lead	<0.50	D008	5.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Mercury	<0.0020	D009	0.20	0.0020	mg/l	1	06/01/07	06/01/07	NS	SW846 7470A [2]	SW846 7470A [3]
Nickel	<0.040			0.040	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Selenium	<0.50	D010	1.0	0.50	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]
Silver	<0.010	D011	5.0	0.010	mg/l	1	06/01/07	06/01/07	NS	SW846 6010B [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA2969
(2) Instrument QC Batch: MA2970
(3) Prep QC Batch: MP6226
(4) Prep QC Batch: MP6229

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

EPAHO103000819

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

EPAHO103000820

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # T17570

Client / Reporting Information

Company Name: Bandy & Associates, Inc.
Address: 11710 Almeda-Genoa
City: Houston State: TX Zip: 77034
Project Contact: M. Krishnan E-mail:
Phone #: 713-947-1055
Sampler's Name:

Project Information

Project Name: Royal Car Wash
Street: 5600 S. Gessner
City: Houston State: TX
Project #: 307070
Fax #: 713-947-9322
Client Purchase Order #:

Requested Analysis

TPH (1005) | BTEX MTBE | 11 Metals TCLP | flash

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	HNO3	H2SO4	NONE	NaOH	MEOH	DI/ORE	Lab Use Only
1	S-1 Soil, Composite from Tanks						1								
2	S-1 Water Composite from Tanks						4								

Turnaround Time (Business Days)

- ☐ 10 Day STANDARD
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Reduced Tier 1
- ☐ Full Tier 1
- ☐ TRRP13
- ☐ EDD Format

Commercial "A" = Results Only

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1	1500 05-23-07	1	2	1500 05-23-07	2 Carrie Escotto
3		3	4		4
5		5	Custody Seal #	Preserved where applicable ☐	On Ice ✓ Cooler Temp. 3.1

T17570: Chain of Custody
Page 1 of 2

EPAHO103000821

ACCUTEST.

SAMPLE RECEIPT LOG

JOB #: T17570 DATE/TIME RECEIVED: 5/23/07 14:00

CLIENT: Barclay + Associates INITIALS: CNE

Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation):

1. (Y) N Sample received in undamaged condition.
2. (Y) N Samples received within temp. range.
3. (Y) N Sample received with proper pH.
4. (Y) N Sample received in proper containers.
5. (Y) N Sample volume sufficient for analysis.
6. (Y) N Sample received with chain of custody.
7. (Y) N Chain of Custody matches sample IDs and analysis on containers.
8. (Y) N Samples Headspace acceptable
9. Y N (NA) Custody seal received intact and tamper not evident on cooler.
10. Y N (NA) Custody seal received intact and tamper not evident on bottles.

SAMPLE or FIELD ID	BOTTLE #	DATE SAMPLED	MATRIX	VOLUME	LOCATION	PRESERV.	PH
1	1	N/A	SO	4oz	VREF	(1),2,3,4,5,6	(U),<2,>12,NA
2	1-3	N/A	AQ	40mL	↓	1,(2),3,4,5,6	U,(<2),>12,NA
↓	4	↓	↓	P500	2R	1,2,(3),4,5,6	U,(<2),>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
				CNE 5/24/07		1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA
						1,2,3,4,5,6	U,<2,>12,NA

LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: Encore Freezer

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other

Comments:

pH of waters checked excluding volatiles

pH of soils N/A

Delivery method: Courier: Accutest

COOLER TEMP: 3.1 COOLER TEMP:

COOLER TEMP: COOLER TEMP:

Form: SM012, Rev.07/28/06, QAO

T17570: Chain of Custody

Page 2 of 2

ACCUTEST. Laboratories T17570

EPAHO103000822

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

EPAHO103000823

Method Blank Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB1407-MB	B0127878.D	1	05/25/07	JH	n/a	n/a	VB1407

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	73-139%
17060-07-0	1,2-Dichloroethane-D4	81%	66-139%
2037-26-5	Toluene-D8	92%	77-148%
460-00-4	4-Bromofluorobenzene	101%	84-150%

Method Blank Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1609-MB	Z0031135.D	1	05/27/07	JH	n/a	n/a	VZ1609

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/kg	
108-88-3	Toluene	ND	5.0	1.3	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.8	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	75-137%
2037-26-5	Toluene-D8	105%	88-147%
460-00-4	4-Bromofluorobenzene	99%	82-154%
17060-07-0	1,2-Dichloroethane-D4	94%	62-135%

EPAHO103000825

Blank Spike Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB1407-BS	B0127877.D	1	05/25/07	JH	n/a	n/a	VB1407

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.6	106	67-118
100-41-4	Ethylbenzene	25	26.3	105	71-119
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	56-117
108-88-3	Toluene	25	26.5	106	70-121
1330-20-7	Xylene (total)	75	79.6	106	72-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	115%	73-139%
17060-07-0	1,2-Dichloroethane-D4	86%	66-139%
2037-26-5	Toluene-D8	96%	77-148%
460-00-4	4-Bromofluorobenzene	94%	84-150%

EPAHO103000826

Blank Spike Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1609-BS	Z0031132.D	1	05/27/07	JH	n/a	n/a	VZ1609

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	41.9	84	64-136
100-41-4	Ethylbenzene	50	39.4	79	71-135
1634-04-4	Methyl Tert Butyl Ether	50	42.0	84	65-127
108-88-3	Toluene	50	39.3	79	70-136
1330-20-7	Xylene (total)	150	120	80	74-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	75-137%
2037-26-5	Toluene-D8	101%	88-147%
460-00-4	4-Bromofluorobenzene	104%	82-154%
17060-07-0	1,2-Dichloroethane-D4	93%	62-135%

EPAHO103000827

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T17547-14MS	B0127893.D	1	05/25/07	JH	n/a	n/a	VB1407
T17547-14MSD	B0127894.D	1	05/25/07	JH	n/a	n/a	VB1407
T17547-14	B0127881.D	1	05/25/07	JH	n/a	n/a	VB1407

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-2

CAS No.	Compound	T17547-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	20.5	82	19.3	77	6	65-122/15
100-41-4	Ethylbenzene	ND		25	22.3	89	20.2	81	10	70-123/18
1634-04-4	Methyl Tert Butyl Ether	ND		25	16.9	68	16.5	66	2	49-122/25
108-88-3	Toluene	ND		25	21.8	87	19.8	79	10	70-123/18
1330-20-7	Xylene (total)	ND		75	67.6	90	64.1	85	5	71-122/16

CAS No.	Surrogate Recoveries	MS	MSD	T17547-14	Limits
1868-53-7	Dibromofluoromethane	97%	98%	109%	73-139%
17060-07-0	1,2-Dichloroethane-D4	68%	71%	81%	66-139%
2037-26-5	Toluene-D8	91%	91%	95%	77-148%
460-00-4	4-Bromofluorobenzene	98%	102%	96%	84-150%

EPAHO103000828

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T17534-14MS	Z0031144.D	1	05/27/07	JH	n/a	n/a	VZ1609
T17534-14MSD	Z0031145.D	1	05/27/07	JH	n/a	n/a	VZ1609
T17534-14 [a]	Z0031143.D	1	05/27/07	JH	n/a	n/a	VZ1609

The QC reported here applies to the following samples: Method: SW846 8260B

T17570-1

CAS No.	Compound	T17534-14 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	6.2 U		64.2	41.2	64	38.6	60	7	50-125/26
100-41-4	Ethylbenzene	6.2 U		64.2	35.6	55	32.8	51	8	46-129/25
1634-04-4	Methyl Tert Butyl Ether	6.2 U		64.2	43.6	68	41.1	63	6	48-123/27
108-88-3	Toluene	6.2 U		64.2	40.0	62	36.7	57	9	51-127/24
1330-20-7	Xylene (total)	19 U		193	101	52	96.5	50	5	48-130/25

CAS No.	Surrogate Recoveries	MS	MSD	T17534-14	Limits
1868-53-7	Dibromofluoromethane	93%	96%	96%	75-137%
2037-26-5	Toluene-D8	110%	111%	115%	88-147%
460-00-4	4-Bromofluorobenzene	118%	122%	130%	82-154%
17060-07-0	1,2-Dichloroethane-D4	92%	92%	94%	62-135%

(a) Isopropanol was searched for as a TIC. None was detected.

EPAHO103000829

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7502-MB	IF16140.D	1	05/24/07	RR	05/24/07	OP7502	GIF563

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C6-C12)	ND	25	6.7	mg/kg	
	TPH (>C12-C28)	ND	25	2.9	mg/kg	
	TPH (>C28-C35)	ND	25	2.9	mg/kg	
	TPH (C6-C35)	ND	25	2.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	79%	40-155%
98-08-8	aaa-Trifluorotoluene	83%	40-135%

EPAHO103000831

Method Blank Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7513-MB	IF16202.D	1	05/29/07	RR	05/29/07	OP7513	GIF564

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C6-C12)	ND	2.5	0.67	mg/l	
	TPH (>C12-C28)	ND	2.5	0.31	mg/l	
	TPH (>C28-C35)	ND	2.5	0.31	mg/l	
	TPH (C6-C35)	ND	2.5	0.31	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	106%	45-155%
98-08-8	aaa-Trifluorotoluene	92%	36-137%

EPAHO103000832

Blank Spike/Blank Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7502-BS	IF16141.D	1	05/24/07	RR	05/24/07	OP7502	GIF563
OP7502-BSD	IF16142.D	1	05/24/07	RR	05/24/07	OP7502	GIF563

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	250	222	89	225	90	1	75-125/20
	TPH (>C12-C28)	250	241	96	246	98	2	75-125/20
	TPH (>C28-C35)		ND		ND		nc	50-150/30 [a]
	TPH (C6-C35)		463		472		2	75-125/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	82%	81%	40-155%
98-08-8	aaa-Trifluorotoluene	85%	85%	40-135%

(a) Advisory control limits.

EPAHO103000833

Blank Spike/Blank Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7513-BS	IF16203.D	1	05/29/07	RR	05/29/07	OP7513	GIF564
OP7513-BSD	IF16204.D	1	05/29/07	RR	05/29/07	OP7513	GIF564

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	48.9	46.1	94	40.6	81	13	60-108/20
	TPH (>C12-C28)	48.9	55.2	113	44.0	88	23*	71-131/20
	TPH (>C28-C35)		ND		ND		nc	50-150/30 [a]
	TPH (C6-C35)		101		84.6		18	50-150/30 [a]

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	122%	91%	45-155%
98-08-8	aaa-Trifluorotoluene	96%	81%	36-137%

(a) Advisory control limits.

EPAHO103000834

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7502-MS	IF16147.D	1	05/24/07	RR	05/24/07	OP7502	GIF563
OP7502-MSD	IF16148.D	1	05/24/07	RR	05/24/07	OP7502	GIF563
T17549-1	IF16146.D	1	05/24/07	RR	05/24/07	OP7502	GIF563

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-1

CAS No.	Compound	T17549-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	37 U		357	386	108	399	107	3	75-125/20
	TPH (>C12-C28)	37 U		357	415	116	410	110	1	75-125/20
	TPH (>C28-C35)	37 U			ND		ND		nc	50-150/30 [a]
	TPH (C6-C35)	37 U			801		809		1	75-125/20

CAS No.	Surrogate Recoveries	MS	MSD	T17549-1	Limits
84-15-1	o-Terphenyl	98%	92%	98%	40-155%
98-08-8	aaa-Trifluorotoluene	101%	96%	101%	40-135%

(a) Advisory control limits.

EPAHO103000835

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T17570
Account: BAATXHO Bandy & Associates, Inc.
Project: Royal Car Wash

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7513-MS	IF16206.D	1	05/29/07	RR	05/29/07	OP7513	GIF564
OP7513-MSD	IF16207.D	1	05/29/07	RR	05/29/07	OP7513	GIF564
T17590-1	IF16205.D	1	05/29/07	RR	05/29/07	OP7513	GIF564

The QC reported here applies to the following samples: Method: TNRCC 1005

T17570-2

CAS No.	Compound	T17590-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C6-C12)	2.80		49.5	45.7	87	47.7	90	4	59-108/26
	TPH (>C12-C28)	2.5 U		49.5	47.7	96	50.5	101	6	49-161/25
	TPH (>C28-C35)	2.5 U			ND		ND		nc	-/0
	TPH (C6-C35)	2.80			93.3		98.2		5	-/23

CAS No.	Surrogate Recoveries	MS	MSD	T17590-1	Limits
84-15-1	o-Terphenyl	107%	132%	106%	45-155%
98-08-8	aaa-Trifluorotoluene	92%	107%	96%	36-137%

EPAHO103000836

Metals Analysis

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

EPAHO103000837

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6226
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	RL	IDL	MB raw	final
Mercury	0.0020	.00049	-0.000080	<0.0020

Associated samples MP6226: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

EPAHO103000838

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6226
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07 06/01/07

Metal	T17520-7 Original	DUP	RPD	QC Limits	T17520-7 Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.13	0.16	81.3	75-125

Associated samples MP6226: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6226
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	T17520-7 Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.12	0.16	75.0	8.0	

Associated samples MP6226: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.1.2 6

EPAHO103000840

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6226
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.029	0.032	90.6	80-120

Associated samples MP6226: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.1.3

6

EPAHO103000841

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6227
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	RL	IDL	MB raw	final
Mercury	0.0020	.00049	-0.00029	<0.0020

Associated samples MP6227: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1
6

EPAHO103000842

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6227
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07 06/01/07

Metal	T17520-6 Original	DUP	RPD	QC Limits	T17520-6 Original	MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.030	0.032	93.8	75-125

Associated samples MP6227: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.2.2
6

EPAHO103000843

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6227
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	T17520-6 Original	MSD	Spikelot HGTXAQ40	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.029	0.032	90.6	3.4	

Associated samples MP6227: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.2.2 6

EPAHO103000844

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6227
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 06/01/07

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.029	0.032	90.6	80-120

Associated samples MP6227: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.3

6

EPAHO103000845

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6228
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.051		
Antimony	0.20	.0018	0.0029	<0.20
Arsenic	0.50	.0014	0.0030	<0.50
Barium	1.0	.0001	0.018	<1.0
Beryllium	0.0050	.00006	-0.00038	<0.0050
Boron	0.10	.0014		
Cadmium	0.0050	.0005	0.00022	<0.0050
Calcium	5.0	.008		
Chromium	0.010	.0009	0.0023	<0.010
Cobalt	0.050	.00099		
Copper	0.025	.0014		
Iron	0.10	.016		
Lead	0.50	.0007	0.046	<0.50
Magnesium	5.0	.008		
Manganese	0.015	.0002		
Molybdenum	0.0050	.00045		
Nickel	0.040	.001	0.0080	<0.040
Potassium	5.0	.08		
Selenium	0.50	.0017	0.0037	<0.50
Silver	0.010	.0005		
Sodium	5.0	.16		
Strontium	0.010	.0005		
Thallium	0.20	.0015		
Tin	0.010	.0015		
Titanium	0.010	.0005		
Vanadium	0.050	.0004		
Zinc	0.10	.0008		

Associated samples MP6228: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

EPAHO103000846

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6228
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07 06/01/07

Metal	T17520-6 Original	DUP	RPD	QC Limits	T17520-6 Original	MS	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum									
Antimony	0.017	0.015	12.5	0-20	0.017	0.52	0.50	100.6	75-125
Arsenic	0.013	0.014	7.4	0-20	0.013	2.1	2.0	104.4	75-125
Barium	0.15	0.15	0.0	0-20	0.15	10.0	10.0	98.5	75-125
Beryllium	0.0	0.0	NC	0-20	0.0	0.049	0.050	98.0	75-125
Boron									
Cadmium	0.0	0.0	NC	0-20	0.0	0.049	0.050	98.0	75-125
Calcium									
Chromium	0.018	0.018	0.0	0-20	0.018	0.22	0.20	101.0	75-125
Cobalt									
Copper									
Iron									
Lead	0.013	0.013	0.0	0-20	0.013	2.1	2.0	104.4	75-125
Magnesium									
Manganese									
Molybdenum									
Nickel	0.28	0.27	3.6	0-20	0.28	0.78	0.50	100.0	75-125
Potassium									
Selenium	0.0080	0.0092	14.0	0-20	0.0080	2.1	2.0	104.6	75-125
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6228: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

EPAHO103000847

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6228
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	T17520-6 Original	MSD	Spikelot MPITCLP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.017	0.44	0.50	84.6	16.7	
Arsenic	0.013	1.8	2.0	89.4	15.4	
Barium	0.15	8.6	10.	84.5	15.1	
Beryllium	0.0	0.042	0.050	84.0	15.4	
Boron						
Cadmium	0.0	0.043	0.050	86.0	13.0	
Calcium						
Chromium	0.018	0.19	0.20	86.0	14.6	
Cobalt						
Copper						
Iron						
Lead	0.013	1.8	2.0	89.4	15.4	
Magnesium						
Manganese						
Molybdenum						
Nickel	0.28	0.67	0.50	78.0	15.2	
Potassium						
Selenium	0.0080	1.9	2.0	94.6	10.0	
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP6228: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

EPAHO103000848

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6228
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	BSP Result	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum				
Antimony	0.50	0.50	100.0	80-120
Arsenic	2.1	2.0	105.0	80-120
Barium	9.8	10.	98.0	80-120
Beryllium	0.049	0.050	98.0	80-120
Boron				
Cadmium	0.051	0.050	102.0	80-120
Calcium				
Chromium	0.22	0.20	110.0	80-120
Cobalt				
Copper				
Iron				
Lead	2.2	2.0	110.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	0.52	0.50	104.0	80-120
Potassium				
Selenium	2.1	2.0	105.0	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6228: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

EPAHO103000849

SERIAL DILUTION RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6228
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/01/07

Metal	T17520-6 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	17.3	22.8	32.2 (a)	0-10
Arsenic	12.6	21.0	66.8 (a)	0-10
Barium	151	151	0.0	0-10
Beryllium	0.00	0.00	NC	0-10
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	18.0	13.3	26.1 (a)	0-10
Cobalt				
Copper				
Iron				
Lead	13.4	18.6	38.5 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	280	286	1.9	0-10
Potassium				
Selenium	7.98	0.00	100.0(a)	0-10
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6228: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

EPAHO103000850

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6229
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.051		
Antimony	0.20	.0018	0.00086	<0.20
Arsenic	0.50	.0014	0.0	<0.50
Barium	1.0	.0001	0.012	<1.0
Beryllium	0.0050	.00006	-0.00040	<0.0050
Boron	0.10	.0014		
Cadmium	0.0050	.0005	-0.000050	<0.0050
Calcium	5.0	.008		
Chromium	0.010	.0009	0.00040	<0.010
Cobalt	0.050	.00099		
Copper	0.025	.0014		
Iron	0.10	.016		
Lead	0.50	.0007	0.0032	<0.50
Magnesium	5.0	.008		
Manganese	0.015	.0002		
Molybdenum	0.0050	.00045		
Nickel	0.040	.001	0.0023	<0.040
Potassium	5.0	.08		
Selenium	0.50	.0017	-0.000040	<0.50
Silver	0.010	.0005	0.00032	<0.010
Sodium	5.0	.16		
Strontium	0.010	.0005		
Thallium	0.20	.0015		
Tin	0.010	.0015		
Titanium	0.010	.0005		
Vanadium	0.050	.0004		
Zinc	0.10	.0008		

Associated samples MP6229: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

EPAHO103000851

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6229
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07 06/01/07

Metal	T17570-2 Original	DUP	RPD	QC Limits	T17570-2 Original	MS	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum									
Antimony	0.0027	0.0	200.0(a)	0-20	0.0027	0.48	0.50	95.5	75-125
Arsenic	0.0018	0.0027	40.0 (a)	0-20	0.0018	2.0	2.0	99.9	75-125
Barium	0.38	0.40	5.1	0-20	0.38	10.1	10.0	97.2	75-125
Beryllium	0.00014	0.00018	25.0 (a)	0-20	0.00014	0.051	0.050	101.7	75-125
Boron									
Cadmium	0.0	0.0	NC	0-20	0.0	0.050	0.050	100.0	75-125
Calcium									
Chromium	0.0055	0.0061	10.3	0-20	0.0055	0.21	0.20	102.3	75-125
Cobalt									
Copper									
Iron									
Lead	0.0041	0.0044	7.1	0-20	0.0041	2.1	2.0	104.8	75-125
Magnesium									
Manganese									
Molybdenum									
Nickel	0.0095	0.0095	0.0	0-20	0.0095	0.52	0.50	102.1	75-125
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	2.0	2.0	100.0	75-125
Silver	0.00053	0.00065	20.3 (a)	0-20	0.00053	0.050	0.050	98.9	75-125
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6229: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

EPAHO103000852

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6229
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	T17570-2 Original	MSD	Spikelot MPITCLP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0027	0.49	0.50	97.5	2.1	
Arsenic	0.0018	2.1	2.0	104.9	4.9	
Barium	0.38	10.4	10.0	100.2	2.9	
Beryllium	0.00014	0.052	0.050	103.7	1.9	
Boron						
Cadmium	0.0	0.051	0.050	102.0	2.0	
Calcium						
Chromium	0.0055	0.22	0.20	107.3	4.7	
Cobalt						
Copper						
Iron						
Lead	0.0041	2.1	2.0	104.8	0.0	
Magnesium						
Manganese						
Molybdenum						
Nickel	0.0095	0.53	0.50	104.1	1.9	
Potassium						
Selenium	0.0	2.0	2.0	100.0	0.0	
Silver	0.00053	0.051	0.050	100.9	2.0	
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP6229: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

EPAHO103000853

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6229
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	BSP Result	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum				
Antimony	0.49	0.50	98.0	80-120
Arsenic	2.0	2.0	100.0	80-120
Barium	9.9	10.	99.0	80-120
Beryllium	0.052	0.050	104.0	80-120
Boron				
Cadmium	0.051	0.050	102.0	80-120
Calcium				
Chromium	0.21	0.20	105.0	80-120
Cobalt				
Copper				
Iron				
Lead	2.1	2.0	105.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	0.52	0.50	104.0	80-120
Potassium				
Selenium	2.0	2.0	100.0	80-120
Silver	0.051	0.050	102.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6229: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

EPAHO103000854

SERIAL DILUTION RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6229
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/01/07

Metal	T17570-2 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	2.72	0.00	100.0(a)	0-10
Arsenic	1.76	0.00	100.0(a)	0-10
Barium	383	385	0.4	0-10
Beryllium	0.140	0.00	100.0(a)	0-10
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	5.46	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron				
Lead	4.11	9.47	130.4(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	9.51	9.87	3.8	0-10
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.530	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6229: T17570-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

EPAHO103000855

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6236
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.051		
Antimony	0.20	.0018		
Arsenic	0.50	.0014		
Barium	1.0	.0001		
Beryllium	0.0050	.00006		
Boron	0.10	.0014		
Cadmium	0.0050	.0005		
Calcium	5.0	.008		
Chromium	0.010	.0009		
Cobalt	0.050	.00099		
Copper	0.025	.0014		
Iron	0.10	.016		
Lead	0.50	.0007		
Magnesium	5.0	.008		
Manganese	0.015	.0002		
Molybdenum	0.0050	.00045		
Nickel	0.040	.001		
Potassium	5.0	.08		
Selenium	0.50	.0017		
Silver	0.010	.0005	0.11	* (a)
Sodium	5.0	.16		
Strontium	0.010	.0005		
Thallium	0.20	.0015		
Tin	0.010	.0015		
Titanium	0.010	.0005		
Vanadium	0.050	.0004		
Zinc	0.10	.0008		

Associated samples MP6236: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Outside of reporting limit with positive bias,but all sample results < rl

EPAHO103000856

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6236
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07 06/01/07

Metal	T17520-6 Original	DUP	RPD	QC Limits	T17520-6 Original	MS	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver	0.0031	0.0027	13.8	0-20	0.0031	0.058	0.050	109.8	75-125
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP6236: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

EPAHO103000857

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6236 — Methods: SW846 6010B
Matrix Type: LEACHATE — Units: mg/l

Prep Date: 06/01/07

Metal	T17520-6 Original	MSD	Spikelot MPITCLP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver	0.0031	0.057	0.050	107.8	1.7	
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP6236: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

EPAHO103000858

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6236
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 06/01/07

Metal	BSP Result	Spikelot MPITCLP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver	0.15	0.050	300.0*(a	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6236: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Outside of reporting limit with positive bias,but all sample results < rl

EPAHO103000859

SERIAL DILUTION RESULTS SUMMARY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

QC Batch ID: MP6236
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/01/07

Metal	T17520-6 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver	3.10	2.98	3.9	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP6236: T17570-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

ACCUTEST Laboratories

EPAHO103000860

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

EPAHO103000861

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T17570
Account: BAATXHO - Bandy & Associates, Inc.
Project: Royal Car Wash

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Ignitability (Flashpoint)	GN11874	T17570-1	Deg. F	>210	>210	0.0	0-20%
Solids, Percent	GN11845	T17580-1	%	96.4	96.5	0.1	0-20%

Associated Samples:
Batch GN11845: T17570-1
Batch GN11874: T17570-1
(*) Outside of QC limits

7.1

7

ACCUTEST. Laboratories
T17570

EPAHO103000862

ROYAL CAR WASH <2271>

EPAHO10300863

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Malthi**

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 # 2271

Generator: Royal Car Wash
Address: 5600 S Gessner
Houston, TX 77036

Waste Information

Name of Waste: Wastewater from sampling well
TCEQ Waste Code #: CESQ1192
Container Type:
Detailed Description of Process Generating Waste:
Water generated from a monitoring well checking for gas/benzene
Color: varies **Odor:** none **pH:** 4-10
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**

SECTION 1: Generator Information

Company:	Royal Car Wash		
Address:	5600 S. Gessner		
City, State, Zip:	Houston, TX 77036		
Contact:	Mlthi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322
24/hr Phone:	713-947-1055		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Bandy and Associates		
Address:	11710 Almeda-Genoa Rd		
City, State, Zip:	Houston, TX 77034		
Contact:	Mathi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322

SECTION 3: General Description of the Waste

Name of Waste: Waste water from sampling well
Detailed Description of Process Generating Waste: Water generated from a monitoring well checking for gas/benzene contamination.

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

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.5 **Density:** 10 lbs/gal

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

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 G	____		____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 12 **Other:** ____
Texas State Waste Code No: CESQ1192
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >210	**pH** 4-10	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-5%
Oil&Grease NDmg/l	**TOC** <5000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** NDmg/l

EPAHO103000865

SECTION 4: Physical and Chemical Data

NON-HAZARDOUS WASTE ONLY The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dirt/Sludge	0-5	%
Water	95-100	%

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.
Analysis See profile# 2270 for 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: Benzene
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
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: Jim Costello ME **Date:** July 31, 2007

Printed Name/Title: Jim Costello

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Barbara Arroyo Date: 8-3-07 (Approved) Rejected Approval Number: 2271	**Process Facility Information:** IL Trans $275 Liq-$65/dm Sludge $55/dm FSC See profile # 2270 for analytical.

EPAHO103000866

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

EPAHO103000867

(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.

EPAHO103000868

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Malthi**

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 # 2271

Generator: Royal Car Wash
Address: 5600 S Gessner
Houston, TX 77036

Waste Information

Name of Waste: Wastewater from sampling well
TCEQ Waste Code #: CESQ1192
Container Type:
Detailed Description of Process Generating Waste:
Water generated from a monitoring well checking for gas/benzene
Color: varies **Odor:** none **pH:** 4-10
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**

SECTION 1: Generator Information

Company:	Royal Car Wash		
Address:	5600 S. Gessner		
City, State, Zip:	Houston, TX 77036		
Contact:	Mlthi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322
24/hr Phone:	713-947-1055		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Bandy and Associates		
Address:	11710 Almeda-Genoa Rd		
City, State, Zip:	Houston, TX 77034		
Contact:	Mathi	**Title:**	Agent for Royal Car Wash
Phone No:	713-947-1055	**Fax No:**	713-947-9322

SECTION 3: General Description of the Waste

Name of Waste: Waste water from sampling well
Detailed Description of Process Generating Waste: Water generated from a monitoring well checking for gas/benzene contamination.

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

Color: Varies **Odor:** None

Specific Gravity (water=1): 1-1.5 **Density:** 10 lbs/gal

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

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

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 12 **Other:** ____
Texas State Waste Code No: CESQ1192
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>210	4-10	0mg/l	0mg/l	0-5%

Oil&Grease	TOC	Zinc	Copper	Nickel
NDmg/l	<5000mg/l	0mg/l	0mg/l	NDmg/l

EPAHO103000870

SECTION 4: Physical and Chemical Data

NON-HAZARDOUS/NON-CORROSIVE/STABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Dirt/Sludge	0-5	%
Water	95-100	%

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.
Analysis See profile# 2270 for 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: Benzene
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
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: Jim Costello mu **Date:** July 31, 2007

Printed Name/Title: Jim Costello

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Arroyo

Date: 8-3-07 (Approved) Rejected

Approval Number: 2271

Process Facility Information: IL
Trans $275
Liq-$65/dm
Sludge $55/dm
FSC

See profile # 2270 for analytical.

EPAHO103000871

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

EPAHO103000872

(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.

EPAHO103000873

ZAP-LOK Pipeline <SHAWCOR>
2272

EPAHO103000874

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Mike**

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 # 2272

Generator: Zap-Lok Pipeline@Shawcore Pipe Protection
Address: 4501 Knapp Road
Pearland, TX 77581

Waste Information

Name of Waste: Non-hazardous wastewater
TCEQ Waste Code #: 00141192
Container Type:
Detailed Description of Process Generating Waste:
Liquid Lube (soap) used to lubricate carbon steel pipe and water to help fit the pipe.
Color: clear to black **Odor:** soapy **pH:** 6-12
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.

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:	Zaplock Pipeline @ Shawcor Pipe Protection		
Address:	4501 Knapp Rd		
City, State, Zip:	Pearland, TX 77581		
Contact:	Angela Molls	**Title:**	HSE Manager
Phone No:	281-458-2657	**Fax No:**	281-485-2657
24/hr Phone:	713-922-5022		
U.S. EPA I.D. No:	TX1490013562		
State I.D.	32925	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Zaplock Pipeline		
Address:	12100 West Little York		
City, State, Zip:	Houston, TX 77041		
Contact:	Mike Hill	**Title:**	Management
Phone No:	713-849-4932	**Fax No:**	713-849-4934

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Water
Detailed Description of Process Generating Waste: Liqui Lube (Soap) used to lubricate carbon steel pipe and water to help fit the pipe.

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

Color: Clear to Black **Odor:** Soapy

Specific Gravity (water=1): 1-1.1 **Density:** 8.3 lbs/gal

Layers: ☒ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 1000 ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: 00141192
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** 6-12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-2%
Oil&Grease Namg/l	**TOC** <5000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

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EPAHO103000876

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Liqui Lube	90-95	%
Water	5-10	%

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 on Soap

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: Angela Myers **Date:** 7/31/07

Printed Name/Title: HSE Coordinator, Angela Myers

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thompson

Date: 8-3-07 Approved Rejected

Approval Number: 2272

Process Facility Information:
Trans $69/hr plus fsc – 4 hr min
.12/gal $150 Min

IL

JUL-31-2007 16:48 CES Environmental Svcs. 7137488864 P.03

EPAHO103000877

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

EPAHO103000878

(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.

EPAHO103000879

MATERIAL SAFETY DATA SHEET

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Replaces 8/12/03
Printed 2/03/04

LIQUI LUBE

MSDS ID: 02850

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LIQUI LUBE
PRODUCT DESCRIPTOR: LIQUID SOAP SYSTEM
MANUFACTURER: JOHNSONDIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800) 851-7145

II. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS NUMBER)	%	EXPOSURE LIMITS	UNITS
NONE			

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: NO
SKIN: NO
INGESTION: NO
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: MAY IRRITATE EYES
CHRONIC: SAME AS ACUTE
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Sensitive skin

IV. FIRST AID MEASURES

EYES: FLUSH THOROUGHLY WITH FRESH WATER. GET MEDICAL ATTENTION.
SKIN: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION.
INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: N/A IN NORMAL OPERATION

V. FIRE FIGHTING MEASURES

FLASH POINT: NONE DEG F FLAME EXTENSION: N/A IN.
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE
UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE KNOWN
EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICALS
FIRE FIGHTING INSTRUCTIONS: WEAR PROTECTIVE GEAR AND SELF CONTAINED BREATHING APPARATUS IN FIRE AREA.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: FLUSH SMALL AMOUNTS TO DRAIN; COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER.

EPAHO103000880

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP FROM FREEZING. KEEP BUNGS IN DRUM. IF FROZEN, THAW AND MIX TO MAKE USABLE. DO NOT PRESSURE CONTAINER TO EMPTY.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: SAFETY GLASSES
PROTECTIVE GLOVES: NONE
RESPIRATORY PROTECTION: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: NONE
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F):	230	SPECIFIC GRAVITY:	1.0150
VOLATILE BY VOLUME:	72	SOLUBILITY IN WATER:	100
VAPOR PRESSURE (MMHG):	17.5	AT 20 C	

APPEARANCE AND ODOR: CLEAR BROWN VISCOUS LIQUID; MILD ODOR.

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: STRONG ACIDS, OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: CO WITH INCOMPLETE COMBUSTION
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: PH ADJUSTMENT; NO PHOSPHATES; BIODEGRADABLE SOAPS. USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL

XIV. TRANSPORT INFORMATION

HAZARDOUS MATERIALS DESCRIPTION/PROPER SHIPPING NAME:
Please refer to the Bill of Lading/receiving documents for up to date shipping information.

EPAHO103000881

MATERIAL SAFETY DATA SHEET

Revised 2/02/04
Replaces 8/12/03
Printed 2/03/04

LIQUI LUBE

MSDS ID: 02850

XV. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
CERCLA/EPCRA:SECTION 313 TOXIC CHEMICALS:
ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.
LISTED CARCINOGEN: NONE
NTP: NO IARC: NO OSHA: NO
HMIS RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0
PERSONAL PROTECTIVE EQUIPMENT: A
STATE RIGHT-TO-KNOW INFORMATION:
POTASSIUM TALLATE - CAS #61790-44-1
SOYBEAN OIL FATTY ACID, POTASSIUM SALT - CAS #61790-24-7
WATER - CAS #7732-18-5
POTASSIUM COCONUT SOAP - CAS #61789-30-8

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED OTHER THAN AS RECOMMENDED BY DIVERSEY LEVER OR IN COMBINATION WITH OTHER MATERIALS. IT IS THE USER'S RESPONSIBILITY TO EVALUATE THE APPLICABILITY OF THIS INFORMATION FOR HIS PARTICULAR CONDITIONS OF STORAGE, HANDLING AND USE.

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Mike**

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 # 2272

Generator: Zap-Lok Pipeline@Shawcore Pipe Protection
Address: 4501 Knapp Road
Pearland, TX 77581

Waste Information

Name of Waste: Non-hazardous wastewater
TCEQ Waste Code #: 00141192
Container Type:
Detailed Description of Process Generating Waste:
Liquid Lube (soap) used to lubricate carbon steel pipe and water to help fit the pipe.
Color: clear to black **Odor:** soapy **pH:** 6-12
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.

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:	Zaplock Pipeline @ Shawcor Pipe Protection		
Address:	4501 Knapp Rd		
City, State, Zip:	Pearland, TX 77581		
Contact:	Angela Molls	**Title:**	HSE Manager
Phone No:	281-458-2657	**Fax No:**	281-485-2657
24/hr Phone:	713-922-5022		
U.S. EPA I.D. No:	TX1490013562		
State I.D.	32925	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Zaplock Pipeline		
Address:	12100 West Little York		
City, State, Zip:	Houston, TX 77041		
Contact:	Mike Hill	**Title:**	Management
Phone No:	713-849-4932	**Fax No:**	713-849-4934

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Water
Detailed Description of Process Generating Waste: Liqui Lube (Soap) used to lubricate carbon steel pipe and water to help fit the pipe.

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

Color: Clear to Black **Odor:** Soapy

Specific Gravity (water=1): 1-1.1 **Density:** 8.3 lbs/gal

Layers: ☒ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	1000	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: 00141192
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** 6-12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-2%
Oil&Grease Namg/l	**TOC** <5000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000884

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Liqui Lube	90-95	%
Water	5-10	%

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 on Soap

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: Angela Meers **Date:** 7/31/07

Printed Name/Title: HSE Coordinator, Angela Meers

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thompson

Date: 8-3-07 Approved Rejected

Approval Number: 2272

Process Facility Information:
Trans $69/hr plus fsc ~4 hr min
.12/gal $150 Min

IL

JUL-31-2007 16:48 CES Environmental Svcs. (713)4888884 P.03

EPAHO103000885

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

EPAHO103000886

(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.

EPAHO103000887

MATERIAL SAFETY DATA SHEET

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Revised 2/02/04
Replaces 8/12/03
Printed 2/03/04

LIQUI LUBE

MSDS ID: 02850

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LIQUI LUBE
PRODUCT DESCRIPTOR: LIQUID SOAP SYSTEM
MANUFACTURER: JOHNSONDIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800)851-7145

II. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS NUMBER)	%	EXPOSURE LIMITS	UNITS
NONE			

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: NO
SKIN: NO
INGESTION: NO
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: MAY IRRITATE EYES
CHRONIC: SAME AS ACUTE
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Sensitive skin

IV. FIRST AID MEASURES

EYES: FLUSH THOROUGHLY WITH FRESH WATER. GET MEDICAL ATTENTION.
SKIN: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION.
INGESTION: GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: N/A IN NORMAL OPERATION

V. FIRE FIGHTING MEASURES

FLASH POINT: NONE DEG F
FLAME EXTENSION: N/A IN.
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE
UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE KNOWN
EXTINGUISHING MEDIA: CO_2, FOAM, DRY CHEMICALS
FIRE FIGHTING INSTRUCTIONS: WEAR PROTECTIVE GEAR AND SELF CONTAINED BREATHING APPARATUS IN FIRE AREA.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: FLUSH SMALL AMOUNTS TO DRAIN; COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER.

EPAHO103000888

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP FROM FREEZING. KEEP BUNGS IN DRUM. IF FROZEN, THAW AND MIX TO MAKE USABLE. DO NOT PRESSURE CONTAINER TO EMPTY.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: SAFETY GLASSES
PROTECTIVE GLOVES: NONE
RESPIRATORY PROTECTION: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: NONE
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILIING POINT (F): 230 SPECIFIC GRAVITY: 1.0150
VOLATILE BY VOLUME: 72 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: CLEAR BROWN VISCOUS LIQUID; MILD ODOR.

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: STRONG ACIDS, OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: CO WITH INCOMPLETE COMBUSTION
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: PH ADJUSTMENT; NO PHOSPHATES; BIODEGRADABLE SOAPS. USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL

XIV. TRANSPORT INFORMATION

HAZARDOUS MATERIALS DESCRIPTION/PROPER SHIPPING NAME:
Please refer to the Bill of Lading/receiving documents for up to date shipping information.

MATERIAL SAFETY DATA SHEET

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LIQUI LUBE

MSDS ID: 02850

XV. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
CERCLA/EPCRA:SECTION 313 TOXIC CHEMICALS:
ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.
LISTED CARCINOGEN: NONE
NTP: NO IARC: NO OSHA: NO
HMIS RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0
PERSONAL PROTECTIVE EQUIPMENT: A
STATE RIGHT-TO-KNOW INFORMATION:
POTASSIUM TALLATE - CAS #61790-44-1
SOYBEAN OIL FATTY ACID, POTASSIUM SALT - CAS #61790-24-7
WATER - CAS #7732-18-5
POTASSIUM COCONUT SOAP - CAS #61789-30-8

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED OTHER THAN AS RECOMMENDED BY DIVERSEY LEVER OR IN COMBINATION WITH OTHER MATERIALS. IT IS THE USER'S RESPONSIBILITY TO EVALUATE THE APPLICABILITY OF THIS INFORMATION FOR HIS PARTICULAR CONDITIONS OF STORAGE, HANDLING AND USE.

3581

SHAWCOR Pipe Protection 2273
2273

EPAHO10300891

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/2/2007**

Dear **Sue Poparad**

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 # 2273

Generator: Shawcor Pipe Protection/Compression Coat
Address: 719 Shields
Channelview, TX 77530

Waste Information

Name of Waste: Recyclable used hydraulic oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used hydraulic oil. Some oil may or may not be mixed with rainwater.
Color: brown to black **Odor:** oily **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.

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:	Shawcor Pipe Protection		
Address:	719 Shields Street		
City, State, Zip:	Channelview, TX		
Contact:	Angie Molis	**Title:**	HSE Manager
Phone No:	281-485-8321	**Fax No:**	281-485-2657
24/hr Phone:	713-922-5022		
U.S. EPA I.D. No:	NA		
State I.D.	87513	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	SHawcor Pipe Protection		
Address:	3838 North Sam Houston Parkway East Suite 300		
City, State, Zip:	Houston, Tx 77032		
Contact:	Kevin Rice	**Title:**	Corp. HSE Manager
Phone No:	832-607-5459	**Fax No:**	281-886-2351

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Used Hydraulic Oil
Detailed Description of Process Generating Waste: Used Hydraulic Oil. Some Oil may or may not be mixed with rain water.

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

Color: Brown to Black **Odor:** Oily

Specific Gravity (water=1): .8-1 **Density:** 7-8 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): 6 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated ~~Waste~~ Sludge Material
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point 160	**pH** Na	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 0-1%
Oil&Grease Namg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

EPAHO103000893

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Water	0-95	%
Hydrolic Oil	5-100	%

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 Chlor-D-Test test upon arrival

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: ~~Benzene~~ 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: Angela Mores **Date:** 7/31/07

Printed Name/Title: HSE Coordinator
Angela Mores

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Reyna Date: 8-3-07 Approved Rejected Approval Number: 2273	**Process Facility Information:** Trans w/ soil drums w/Water $35/dm REC No Water- $0/dm

EPAHO103000894

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

EPAHO103000895

(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.

EPAHO103000896

EPAHO103000897

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Merritt McNeel**

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 # 2274

Generator: Volta
Address: 14350 Chrisman Road
Houston, TX 77039

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used motor oil and hyraulic oil derived from equipment fluid changes
Color: black/amber **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.

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:	Volta		
Address:	14350 Chrisman Road		
City, State, Zip:	Houston, TX 77039-1509		
Contact:	Merritt McNeel	**Title:**	Production Manager
Phone No:	281-219-1877	**Fax No:**	832-553-7906
24/hr Phone:	CES-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:			
Address:			
City, State, Zip:			
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 Motor Oil and hydraulic oil derived from equipment fluid changes

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

Color: Black/amber **Odor:** oil like

Specific Gravity (water=1): .85 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

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

Flash Point >140	**pH** NA	**Reactive Sulfides** 0mg/l	**Reactive Cyanide** 0mg/l	**Solids** <3%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103000899

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Motor Oil	50-100	%
Hydraulic Oil	50-100	%
Water	0-60	%
Rust Scale, dirt etc.	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.
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: M. McNeel Date: 7/30/07

Printed Name/Title: Merritt McNeel, Buyer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Langdon

Date: 8-2-07 Approved Rejected

Approval Number: 22714

Additional Information: 35.00/Drum
200.00/Pick Fee

EPAHO103000900

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.

EPAHO103000902

2275 Shawcor Pipe Protection

EPAHO10300903

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Sue Poparad**

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 # 2275

Generator: Shawcor Pipe Protection/Compression Coat
Address: 719 Shields
Channelview, TX 77530

Waste Information

Name of Waste: Non-hazardous organic impacted soil
TCEQ Waste Code #: 00082191
Container Type:
Detailed Description of Process Generating Waste:
Soil contaminated with hydraulic oil or non-hazardous polyall
Color: brown to black **Odor:** slight hydrocarbon **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.

D13

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:	Shawcor Pipe Protection		
Address:	719 Shields Street		
City, State, Zip:	Channelview, TX		
Contact:	Angie Molis	**Title:**	HSE Manager
Phone No:	281-485-8321	**Fax No:**	281-485-2657
24/hr Phone:	713-922-5022		
U.S. EPA I.D. No:	NA		
State I.D.	87513	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	SHawcor Pipe Protection		
Address:	3838 North Sam Houston Parkway East Suite 300		
City, State, Zip:	Houston, Tx 77032		
Contact:	Kevin Rice	**Title:**	Corp. HSE Manager
Phone No:	832-607-5459	**Fax No:**	281-886-2351

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Organic Impacted Soil
Detailed Description of Process Generating Waste: Soil contaminated with hydrolic oil or Non-Hazardous Polyall.

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

Color: Brown to Black **Odor:** Slight Hydrocarbon

Specific Gravity (water=1): 1-1.5 **Density:** 10 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): 11 **Other:** ____
Texas State Waste Code No: 00082191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated ~~Waste Sludge~~ Material
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
160	Na	0mg/l	0mg/l	100%

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

EPAHO103000905

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Dirt/Sand/Rock	90-100	%
Hydrolic Oil	0-10	%
GSPU Polyalla	0-10	%

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, MSDS

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: Benzene
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: Angela Meeks **Date:** 7/31/07

Printed Name/Title: HSE Coordinator, Angela Meeks

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robert Reynolds	**Process Facility Information:**
Date: 8-2-07 Approved Rejected	Trans/ $275.00 Soil/Organics- $40/dm DS
Approval Number: 2275	FSC 20%

JUL-31-2007 16:50 CBS Environmental Svcs. 7137488664 P.11

EPAHO103000906

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

EPAHO103000907

(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.

EPAHO103000908

LABORATORY TEST RESULTS

Job ID : 91086

Date 7/9/2007

Client Name: E & IH Services

Attn: Sudhir Desai

Project ID: SH - Channelview

Client Sample ID: SH-CHA-062807-W-1
Date Collected: 06/28/07
Time Collected: 09:10
Other Information:

Job Sample ID: 91086.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		07/03/07 15:25	SC
	Barium	0.317	mg/L	1	0.1	100.0		07/03/07 15:25	SC
	Cadmium	BRL	mg/L	1	0.1	1.0		07/03/07 15:25	SC
	Chromium	BRL	mg/L	1	0.1	5.0		07/03/07 15:25	SC
	Lead	BRL	mg/L	1	0.1	5.0		07/03/07 15:25	SC
	Selenium	BRL	mg/L	1	0.500	1.0		07/03/07 15:25	SC
	Silver	BRL	mg/L	1	0.1	5.0		07/03/07 15:25	SC
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		06/29/07 13:41	RB
SW-846 8021B	Purgeable Aromatics								
	Benzene	BRL	mg/Kg	10	0.1		D1	07/03/07 01:20	SS
	Toluene	BRL	mg/Kg	10	0.1			07/03/07 01:20	SS
	Ethylbenzene	BRL	mg/Kg	10	0.1			07/03/07 01:20	SS
	Xylenes	BRL	mg/Kg	10	0.300			07/03/07 01:20	SS
	Trifluorotoluene(surr)	97.3	%	10	75-125			07/03/07 01:20	SS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	10	114			07/03/07 00:33	HK
	>C12-C28	8624	mg/Kg	10	133			07/03/07 00:33	HK
	>C28-C35	8584	mg/Kg	10	268			07/03/07 00:33	HK
	Total C6-C35	17208	mg/Kg	10				07/03/07 00:33	HK
	Chlorooctadecane(surr)	N/A	%	10	50-149		S4	07/03/07 00:33	HK

EPAHO103000909

LABORATORY TEST RESULTS

Job ID : 91086

Date 7/9/2007

Client Name: E & IH Services

Attn: Sudhir Desai

Project ID: SH - Channelview

Client Sample ID: SH-CHA-062807-W-2
Date Collected: 06/28/07
Time Collected: 09:56
Other Information:

Job Sample ID: 91086.02
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		07/03/07 15:32	SC
	Barium	0.296	mg/L	1	0.1	100.0		07/03/07 15:32	SC
	Cadmium	BRL	mg/L	1	0.1	1.0		07/03/07 15:32	SC
	Chromium	BRL	mg/L	1	0.1	5.0		07/03/07 15:32	SC
	Lead	BRL	mg/L	1	0.1	5.0		07/03/07 15:32	SC
	Selenium	BRL	mg/L	1	0.500	1.0		07/03/07 15:32	SC
	Silver	BRL	mg/L	1	0.1	5.0		07/03/07 15:32	SC
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		06/29/07 13:47	RB
SW-846 8021B	Purgeable Aromatics								
	Benzene	BRL	mg/Kg	10	0.1		D1	07/03/07 01:41	SS
	Toluene	BRL	mg/Kg	10	0.1			07/03/07 01:41	SS
	Ethylbenzene	BRL	mg/Kg	10	0.1			07/03/07 01:41	SS
	Xylenes	BRL	mg/Kg	10	0.300			07/03/07 01:41	SS
	Trifluorotoluene(surr)	97.8	%	10	75-125			07/03/07 01:41	SS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	56.2	mg/Kg	1	11.4			07/03/07 01:01	HK
	>C12-C28	1330	mg/Kg	1	13.3			07/03/07 01:01	HK
	>C28-C35	BRL	mg/Kg	1	26.8			07/03/07 01:01	HK
	Total C6-C35	1386.2	mg/Kg	1				07/03/07 01:01	HK
	Chlorooctadecane(surr)	N/A	%	1	50-149		S5	07/03/07 01:01	HK

EPAHO103000910

LABORATORY TEST RESULTS

Job ID : 91086

Date 7/9/2007

Client Name: E & IH Services

Attn: Sudhir Desai

Project ID: SH - Channelview

Client Sample ID: SH-CHA-062807-W-3
Date Collected: 06/28/07
Time Collected: 10:45
Other Information:

Job Sample ID: 91086.03
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		07/03/07 15:37	SC
	Barium	0.311	mg/L	1	0.1	100.0		07/03/07 15:37	SC
	Cadmium	BRL	mg/L	1	0.1	1.0		07/03/07 15:37	SC
	Chromium	BRL	mg/L	1	0.1	5.0		07/03/07 15:37	SC
	Lead	BRL	mg/L	1	0.1	5.0		07/03/07 15:37	SC
	Selenium	BRL	mg/L	1	0.500	1.0		07/03/07 15:37	SC
	Silver	BRL	mg/L	1	0.1	5.0		07/03/07 15:37	SC
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		06/29/07 13:50	RB
SW-846 8021B	Purgeable Aromatics								
	Benzene	BRL	mg/Kg	10	0.1		D1	07/03/07 02:02	SS
	Toluene	0.115	mg/Kg	10	0.1			07/03/07 02:02	SS
	Ethylbenzene	0.155	mg/Kg	10	0.1			07/03/07 02:02	SS
	Xylenes	0.793	mg/Kg	10	0.300			07/03/07 02:02	SS
	Trifluorotoluene(surr)	96.8	%	10	75-125			07/03/07 02:02	SS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	100	1140			07/03/07 01:28	HK
	>C12-C28	65766	mg/Kg	100	1330			07/03/07 01:28	HK
	>C28-C35	57167	mg/Kg	100	2680			07/03/07 01:28	HK
	Total C6-C35	122933	mg/Kg	100				07/03/07 01:28	HK
	Chlorooctadecane(surr)	N/A	%	100	50-149		S4	07/03/07 01:28	HK

EPAHO103000911

QUALITY CONTROL CERTIFICATE

Job ID : 91086 **Date :** 7/9/2007

Analysis : TCLP Metals, Mercury **Method :** SW-846 7470A **Reporting Units :** mg/L

QC Batch ID : Qb07062917 **Created Date :** 06/29/07 **Created By :** Rbairamadgi

Samples in This QC Batch : 91086.01,02,03

Digestion :	PB07062905	**Prep Method :** SW-846 7470A		**Prep Date :**	06/29/07 09:30	**Prep By :**	Rbairamadgi
TCLP Prep :	PB07062901	**Prep Method :** SW-846 1311		**Prep Date :**	06/28/07 17:00	**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.002		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0048	96						71-143	

QC Type: MS and MSD
QC Sample ID: 91096.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0053	106	0.005	0.0051	102	3.85	35	61-175	

Refer to the Definition page for terms.

EPAHO103000912

QUALITY CONTROL CERTIFICATE

Job ID : 91086 **Date :** 7/9/2007

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb07070317 **Created Date :** 07/02/07 **Created By :** Hkhuc

Samples in This QC Batch : 91086.01,02,03

Sample Preparation : PB07070306 **Prep Method :** TX 1005 **Prep Date :** 07/02/07 11:00 **Prep By :** Hkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1	11.4		
>C12-C28		BRL	mg/Kg	1	13.3		
>C28-C35		BRL	mg/Kg	1	26.8		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	517	103						75-125	
>C12-C28	500	595	119						75-125	
>C28-C35	500	588	118						75-125	

QC Type: MS and MSD
QC Sample ID: 91175.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	524	105	500	485	97	7.73	20	75-125	
>C12-C28	BRL	500	536	107	500	503	101	6.35	20	75-125	
>C28-C35	BRL	500	593	119	500	533	107	10.7	20	75-125	

Refer to the Definition page for terms.

EPAHO103000913

QUALITY CONTROL CERTIFICATE

Job ID : 91086 **Date :** 7/9/2007

Analysis : TCLP Metals **Method :** SW-846 6010C **Reporting Units :** mg/L

QC Batch ID : Qb07070346 **Created Date :** 07/03/07 **Created By :** Scuello

Samples in This QC Batch : 91086.01,02,03

Digestion :	PB07070326	**Prep Method :**	SW-846 3010A	**Prep Date :**	07/03/07 09:40	**Prep By :**	Rbairamadgi
TCLP Prep :	PB07062901	**Prep Method :**	SW-846 1311	**Prep Date :**	06/28/07 17:00	**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.1		
Barium	7440-39-3	BRL	mg/L	1	0.1		
Cadmium	7440-43-9	BRL	mg/L	1	0.1		
Chromium	7440-47-3	BRL	mg/L	1	0.1		
Lead	7439-92-1	BRL	mg/L	1	0.1		
Selenium	7782-49-2	BRL	mg/L	1	0.5		
Silver	7440-22-4	BRL	mg/L	1	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	1	1.00	100	1	1.04	104	3.92	20	80-120	
Barium	1	0.929	92.9	1	0.973	97.3	4.63	20	80-120	
Cadmium	1	0.945	94.5	1	0.986	98.6	4.25	20	80-120	
Chromium	1	0.927	92.7	1	0.971	97.1	4.64	20	80-120	
Lead	1	0.932	93.2	1	0.957	95.7	2.65	20	80-120	
Selenium	1	0.999	99.9	1	1.04	104	4.02	20	80-120	
Silver	1	0.946	94.6	1	0.987	98.7	4.24	20	80-120	

QC Type: MS and MSD
QC Sample ID: 91131.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.25	113	2	2.31	116	2.63	30	45-138	
Barium	0.387	2	2.46	104	2	2.47	104	0.48	25	39-135	
Cadmium	BRL	2	2.06	103	2	2.08	104	0.96	25	56-125	
Chromium	BRL	2	2.03	102	2	2.04	102	0.49	25	52-125	
Lead	BRL	2	2.03	102	2	2.07	104	1.95	25	55-125	
Selenium	BRL	2	2.25	113	2	2.31	116	2.63	25	18-137	
Silver	BRL	2	2.09	105	2	2.11	106	0.95	25	26-148	

Refer to the Definition page for terms.

EPAHO103000914

QUALITY CONTROL CERTIFICATE

Job ID : 91086 **Date :** 7/9/2007

Analysis : Purgeable Aromatics **Method : SW-846 8021B** **Reporting Units : mg/Kg**

QC Batch ID : Qb07070506 **Created Date :** 07/02/07 **Created By :** Ssrinivasan

Samples in This QC Batch : 91086.01,02,03

Sample Preparation : PB07070230 **Prep Method :** SW-846 5035A **Prep Date :** 07/02/07 10:00 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Benzene	71-43-2	BRL	mg/Kg	1	0.01		
Toluene	108-88-3	BRL	mg/Kg	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.01		
Xylenes		BRL	mg/Kg	1	0.03		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.1	0.092	92	0.1	0.093	93	1.08	20	80-120	
Toluene	0.1	0.099	99	0.1	0.100	100	1.01	20	80-120	
Ethylbenzene	0.1	0.098	98	0.1	0.099	99	1.02	20	80-120	
Xylenes	0.300	0.296	98.7	0.300	0.298	99.3	0.67	20	80-120	

QC Type: MS and MSD
QC Sample ID: 91151.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.1	0.092	92	0.1	0.092	92	0	20	75-125	
Toluene	BRL	0.1	0.097	97	0.1	0.096	96	1.04	20	75-125	
Ethylbenzene	BRL	0.1	0.095	95	0.1	0.095	95	0	20	75-125	
Xylenes	BRL	0.300	0.278	92.7	0.300	0.276	92	0.72	20	75-125	

Refer to the Definition page for terms.

EPAHO103000915

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 91086 Date: 7/9/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

D1	Sample required dilution due to matrix effects.
S4	Surrogate not available due to dilution of sample extract for quantification.
S5	Target compounds caused elevation of baseline. Surrogate not calculated

EPAHO103000916

A & B Labs

Chain of Custody

Page _____ of _____

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID: 91086

5. Project #:

1. REPORT TO:
Company: E & H Services
Address: 911 Epperson Dr
SL TX 77479
Contact: Dr. Sudhir Desai
Phone: 281-491-5455
Fax: ☐
E-mail: ☐ Sdesai145T@AOL.com

2. INVOICE TO:
Company:
Address:
Contact:
Phone:
Fax: ☐
E-mail: ☐

3. PO#

4. Turnaround Time (Business Days)
☐ Same Day* ☐ Need by
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 7 Days * Surcharge applies

6. Project Name / Location: Sh-Channelview

7. Special Instructions (PLEASE PRINT)
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached

8. Sampler's Name & Company (PLEASE PRINT): S. Desai
Sampler's Signature & Date:

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	10. Sampling Time	11. Comp.	11. Grab	12. Matrix Water	Soil	Sludge	Oil	Air	Other	13. No. of Containers	14. Containers*	15. Preservatives**	16. Analyses/Methods TCLP-RCRA Metals	IDH	BTEX	17. REMARKS
01	1	Sh-Cha-062507-W-1	6/28/07	9:10		X		X								X			
02	2	Sh-Cha-062507-W-2	"	9:50		X		X								X			
03	3	Sh-Cha-062507-W-3	"	10:45		X		X								X			
	4																		
	5																		
	6																		
	7																		
	8																		
	9																		
	10																		

18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1 Sudhir Desai	6/28/07	12:39		6/28/07	1239
2					
3					

20. KNOWN HAZARDS / COMMENTS

*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

BILL OF LADING / TRACKING #

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

EPAHO10300917

Sample Condition Checklist

Date : **06/28/07**

A&B JobID : **91086**	Date Received : **06/28/2007**	Time Received : **12:39 PM**
Client Name : **E & IH Services**		
Temperature : **20°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.	**Sample were received in appropriate container(s).**	X	
10.	**All samples were logged 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 completely filled.**	N/A	
16.	**Sample accepted.**	X	

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Mgonzalez

Check in by/date : Rgamez / 6/28/2007

A-one chemicals and equipment

<2276>

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

Dear **Bill 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 # 2276

Generator: A-ONE Chemicals and Equipment, Inc. (East "X" Street)
Address: 2902 East "X" Street
Deer Park, TX 77536

Waste Information

Name of Waste: Process Wastewater
TCEQ Waste Code #: CESQ1192
Container Type:
Detailed Description of Process Generating Waste:
Water from rinsing blending vats
Color: dark brown **Odor:** mild **pH:** 4-11
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard

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:	A-ONE Chemicals and Equipment, Inc.		
Address:	2902 East "X" Street		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Bill Doyle	**Title:**	VP-General Manager
Phone No:	281-542-5000	**Fax No:**	281-542-5000
24/hr Phone:	same		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	A-ONE Chemicals and Equipment, Inc.		
Address:	PO Box 1509		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Bill Doyle	**Title:**	VP-General Manager
Phone No:	281-542-5000	**Fax No:**	281-542-5002

SECTION 3: General Description of the Waste

Name of Waste: Process waste water
Detailed Description of Process Generating Waste: Water from rinsing blending vats

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

Color: Dark brown **Odor:** mild

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

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5500	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQ1192
Proper U.S. DOT Shipping Name: Non regulated waste water
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >200	**pH** 4-11	**Reactive Sulfides** NA mg/l	**Reactive Cyanides** NA mg/l	**Solids** 0 %
Oil&Grease <1500 mg/l	**TOC** 438@ 135 mg/l	**Zinc** NA mg/l	**Copper** NA mg/l	**Nickel** NA mg/l

EPAHO103000921

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Soaps and detergents	5 - 10	%
inorganic acids	.5	%
water	90 - 98	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
no 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 for each product made in blenders

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: 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: Bill Doyle **Date:** 8-6-07

Printed Name/Title: Bill Doyle VP-General Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Hargrave Additional Information: $0.12/gal

Date: 8-6-07 (Approved) Rejected IL

Approval Number: 2276

EPAHO103000922

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

EPAHO103000923

(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.

EPAHO103000924

MATERIAL SAFETY DATA SHEET

FLEET WASH CONCENTRATE

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
January 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	**OSHA PEL**	**ACGIH TLV**	**Other Limits Recommended**	**%** *(optional)*
Sodium Metasilicate (CAS#6834-92-0)	2mg/m3	2mg/m3	N/E	N/A
Butoxyethanol (CAS#111-76-2)	25-ppm	25-ppm		

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	**Specific Gravity (H_2O =1)** Ph - 13.0	N/A
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	N/A
Vapor Density (AIR = 1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	N/A

Solubility in Water
100% Biodegradable

Appearance and Odor
Blue liquid color with no significant odor

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	**Flammable Limits**	**LEL**	**UEL**
None	N/A	N/A	N/A

Extinguishing Media
None

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
			Avoid contact with strong acids
	Stable	X	N/A

Incompatibility (Materials to Avoid)
Strong acids—do not store in aluminum containers

Hazardous Decomposition or Byproducts
Will not occur

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Irritant	Irritant	Irritant

Health Hazards (Acute and Chronic)
May cause severe eye irritation upon direct contact. Prolonged skin contact may cause irritation. Inhalation of high concentrations is irritating. Harmful if swallowed.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
No	No	No	No

Signs and Symptoms of Exposure
May cause irritation of eyes, skin or mucous membrane.

Medical Conditions (Generally Aggravated by Exposure)
None known.

Emergency and First Aid Procedures
Eyes: flush with water for 15 minutes, get medical attention. Skin: flush thoroughly with water. Inhalation: remove to fresh air. Ingestion: give large quantities of water. Do not induce vomiting. Get medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Flush with large amounts of water and dilute with acid.

Waste Disposal Method
Follow federal, state and local regulations regarding health and pollution.

Precautions to Be Taken in Handling and Storing
Store in cool dry area. Keep out of reach of children.

Other Precautions
Do not get in eyes, on skin or clothing. Do not take internally. When handling, wear gloves and eye protection. In case of contact, flush skin and/or eyes with water for fifteen (15) minutes and consult a physician if irritation persists.

Section VIII — Control Measures

Respiratory Protection (Specify Type)
None required under normal use.

Ventilation	Local Exhaust	Special
	General	N/A
	Mechanical (General)	**Other**
	N/A	N/A

Protective Gloves
Rubber or Neoprene

Eye Protection
Chemical Safety Goggles

Other Protective Clothing or Equipment
Standard clothing - wash clothes that are contaminated before wearing.

Work/Hygiene Practices
Clean spills immediately.

MATERIAL SAFETY DATA SHEET

DYNA-STRIP "2000" CONCENTRATE (RESIN & LATEX STRIPPER)

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
January 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	**OSHA PEL**	**ACGIH TLV**	**Other Limits Recommended**	**%** *(optional)*
Butoxyethanol CAS #111-76-2	25-ppm	25-ppm	N/A	N/A
Sodium Metasilicate CAS # 6834-92-0	2 mg/m3	2 mg/m3	N/A	N/A
Furfuryl Alcohol CAS # 98-00-0	10-ppm (skin)	10-ppm (skin)	N/A	N/A
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3	2 mg/m3	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	205 ° F	**Specific Gravity (H_2O =1)**	0.98
Vapor Pressure (mm Hg.)	830	**Melting Point**	N/A
Vapor Density (AIR = 1)	ND	**Evaporation Rate (Butyl Acetate = 1)**	W – 2.3

Solubility in Water
100% Water Soluble

Appearance and Odor
Dark brown with citrus solvent odor

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	**Flammable Limits**	**LEL**	**UEL**
200 ° F (CEC)	N/A	ND	ND

Extinguishing Media
Water Class (C) - Foam

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)
Strong acids or oxidizers

Hazardous Decomposition or Byproducts
NH_3 – CO-CO_2

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	X	X	X

Health Hazards (Acute and Chronic)
Skin & Eyes – Drying of skin, dermatitis, gastro-intestinal upset, diarrhea or vomiting, or burning of eyes on entry, or possible blindness.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	N/A

Signs and Symptoms of Exposure
Burns, dermatitis, neural irritation, blindness

Medical Conditions (Generally Aggravated by Exposure)
Skin diseases, pulmonary

Emergency and First Aid Procedures
If product is splashed in eyes or on skin, flush with copious amounts of water. If ingested do not induce vomiting. Seek medical attention immediately.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Dilute with water and prevent loss into environment by using absorbents, and diking to contain. Collect material for disposal.

Waste Disposal Method
Dispose of materials and absorbents into approved facilities following local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Store away from strong acids or oxidizers

Other Precautions
Maintain good housekeeping

Section VIII — Control Measures

Respiratory Protection (Specify Type)
OSHA approved chemical respirator

Ventilation	Local Exhaust	Special
	Standard ventilation	N/A
	Mechanical (General)	**Other**

Protective Gloves
Rubber or Neoprene

Eye Protection
OSHA Eye shield or goggles

Other Protective Clothing or Equipment
Slicker suits

Work/Hygiene Practices
Do not allow long term contact.

MATERIAL SAFETY DATA SHEET

DYNA-SOLV "101" CONCENTRATE

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
JANUARY 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Butoxyethanol (CAS#111-76-2)	25-ppm	25-ppm	N/A	N/A
Sodium Metasilicate (CAS#6834-92-0)	2mg/m3	2mg/2m3	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	205 °F	**Specific Gravity (H_2O =1)**	1.075
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	Liquid
Vapor Density (AIR = 1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	N/A

Solubility in Water
100%

Appearance and Odor
Red liquid with citrus solvent odor.

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	Flammable Limits	LEL	UEL
200 °F	Non Flammable	N/A	N/A

Extinguishing Media
Water Class (C), Foam

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
Non Flammable

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	N/A

Incompatibility (Materials to Avoid)
Strong acids or oxidizers.

Hazardous Decomposition or Byproducts
Carbon Dioxide or Carbon Monoxide

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
		(X)	(X)

Health Hazards (Acute and Chronic)
Drying of skin, Dermatitis, Gastro-intestinal upset, Diarrhea, Vomiting

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	N/A

Signs and Symptoms of Exposure
Dermatitis

Medical Conditions (Generally Aggravated by Exposure)
Skin diseases.

Emergency and First Aid Procedures
If product is splashed in eyes or on skin, flush with generous quantities of water. If ingested, do not induce vomiting. Seek medical attention promptly.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Dilute with water and prevent loss into environment by using absorbers and diking to contain. Collect material for disposal.

Waste Disposal Method
Dispose of materials and absorbents into approved facilities following local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Store away from strong acids or oxidizers.

Other Precautions
None

Section VIII — Control Measures

Respiratory Protection (Specify Type)
Standard Ventilation

Ventilation		
	Local Exhaust Recommended	**Special** N/A
	Mechanical (General) N/A	**Other** N/A

Protective Gloves
Rubber or Neoprene

Eye Protection
Eye shield or goggles

Other Protective Clothing or Equipment
Slicker suits.

Work/Hygiene Practices

MATERIAL SAFETY DATA SHEET

DYNA-BRITE CONCENTRATE

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
JANUARY 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Sulfuric Acid (CAS#7664-93-9)	1	2	N/A	N/A
Hydrofluoric Acid (CAS#7664-39-3)	3	3	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	200° F	**Specific Gravity (H_2O =1)**	1.158
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	N/A
Vapor Density (AIR = 1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	1

Solubility in Water
100%

Appearance and Odor
Clear, colorless to slightly tinted liquid, pungent odor.

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	Flammable Limits	LEL	UEL
None	N/A	N/A	N/A

Extinguishing Media
Use water spray, dry chemical, "alcohol" foam or Carbon Dioxide.

Special Fire Fighting Procedures
Cool tank with water if exposed to fire. Wear self-contained breathing apparatus and full protective clothing and boots

Unusual Fire and Explosion Hazards
Hydrofluoric acid corrodes most metals releasing flammable explosive concentrations of Hydrogen (particularly when diluted).

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	N/A

Incompatibility (Materials to Avoid)
HF vapors, Silicon Tetrafluoride, Hydrogen

Hazardous Decomposition or Byproducts
None

Hazardous Polymerization			Conditions to Avoid
	May Occur	None	None
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Severe irritant	Severe irritant	Severe irritant

Health Hazards (Acute and Chronic)
Severe irritant to corrosive effects when in contact with eyes, skin and extremely hazardous when entering the body by inhalation or ingestion.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None	None	None	No

Signs and Symptoms of Exposure
Can cause severe burns. Dangerous to eyes, skin, and respiratory tract. Corrosive to gastrointestinal tract if taken internally. Lung injury may be delayed.

Medical Conditions (Generally Aggravated by Exposure)
None

Emergency and First Aid Procedures
Remove to fresh air and call a physician. *For eyes and skin*, flush with water for at least 14 minutes. *For inhalation*, give oxygen, if no breathing, give artificial respiration (mouth to mouth). Take immediately to a hospital.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
A. Strong oxidizing material. Do not store near oxidizable materials, e.g., flammable, reducing agents, and combustible materials. Separate from caustics. Separate from chemically active metals and reducing agents. Separate from organics.
B. Dike area to contain spills. Neutralize spill with soda ash, flush away with water.

Waste Disposal Method
Refer to all State, Local and Federal laws.

Precautions to Be Taken in Handling and Storing
See step (A) above.

Other Precautions
None

Section VIII — Control Measures

Respiratory Protection (Specify Type)
NIOSH or OSHA approved respirator when mist or spray occurs

Ventilation	Local Exhaust	Special
	Yes - well ventilated	N/A
	Mechanical (General)	**Other**
	N/A	N/A

Protective Gloves
Rubber or Neoprene

Eye Protection
Face shield

Other Protective Clothing or Equipment
Rubber boots and apron

Work/Hygiene Practices
Normal

MATERIAL SAFETY DATA SHEET

DYNA-SOLV CONCENTRATE

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
JANUARY 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	**OSHA PEL**	**ACGIH TLV**	**Other Limits Recommended**	**%** *(optional)*
Butoxyethanol (CAS#111-76-2)	25-ppm	25-ppm	N/A	N/A
Sodium Metasilicate (CAS#6834-92-0)	2mg/m3	2mg/2m3	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	205 °F	**Specific Gravity (H_2O =1)**	1.075
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	Liquid
Vapor Density (AIR = 1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	N/A

Solubility in Water
100%

Appearance and Odor
Red liquid with solvent odor.

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	**Flammable Limits**	**LEL**	**UEL**
200 °F	Non Flammable	N/A	N/A

Extinguishing Media
Water Class (C), Foam

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
Non Flammable

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	N/A

Incompatibility (Materials to Avoid)
Strong acids or oxidizers.

Hazardous Decomposition or Byproducts
Carbon Dioxide or Carbon Monoxide

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
		(X)	(X)

Health Hazards (Acute and Chronic)
Drying of skin, Dermatitis, Gastro-intestinal upset, Diarrhea, Vomiting

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	N/A

Signs and Symptoms of Exposure
Dermatitis

Medical Conditions (Generally Aggravated by Exposure)
Skin diseases.

Emergency and First Aid Procedures
If product is splashed in eyes or on skin, flush with generous quantities of water. If ingested, do not induce vomiting. Seek medical attention promptly.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Dilute with water and prevent loss into environment by using absorbers and diking to contain. Collect material for disposal.

Waste Disposal Method
Dispose of materials and absorbents into approved facilities following local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Store away from strong acids or oxidizers.

Other Precautions
None

Section VIII — Control Measures

Respiratory Protection (Specify Type)
Standard Ventilation

Ventilation		
	Local Exhaust Recommended	**Special** N/A
	Mechanical (General) N/A	**Other** N/A

Protective Gloves
Rubber or Neoprene

Eye Protection
Eye shield or goggles

Other Protective Clothing or Equipment
Slicker suits.

Work/Hygiene Practices

MATERIAL SAFETY DATA SHEET

DYNA-STRIP "2020" CONCENTRATE - LATEX SKIN REMOVER

Section I

CHEMICALS & EQUIPMENT, INC.
7782 Braniff
Houston, TX 77061
Toll Free 877-644-1492

Emergency Telephone Number
(713) 644-1492

Telephone Number for Information
(713) 644-1492

Date Prepared
January 5, 2007

Section II — Hazardous Ingredients/Identity Information

Hazardous Components *(Specific Chemical Identity: Common Name(s))*	**OSHA PEL**	**ACGIH TLV**	**Other Limits Recommended**	**%** *(optional)*
Sodium Metasilicate (CAS # 6834-92-0)	N/E	N/E	N/A	N/A

Section III — Physical/Chemical Characteristics

Boiling Point	212 °F	**Specific Gravity (H_2O =1)**	1.040
Vapor Pressure (mm Hg.)		**Melting Point**	
Vapor Density (AIR = 1)		**Evaporation Rate (Butyl Acetate = 1)**	1%

Solubility in Water

Appearance and Odor
Amber liquid

Section IV — Fire and Explosion Hazard Data

Flash Point *(Method Used)*	**Flammable Limits**	**LEL**	**UEL**
N/A		N/A	N/A

Extinguishing Media
Dry chemical, water mist, alcohol foam

Special Fire Fighting Procedures
Firefighters should wear a self-contained breathing apparatus as in all chemical fires.

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	

Incompatibility (Materials to Avoid)
Avoid elevated temperature. Avoid strong oxidizing agents.

Hazardous Decomposition or Byproducts
May produce oxides of carbon

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	Yes	No	Yes

Health Hazards (Acute and Chronic)
May produce irritation of the gastrointestinal tract if ingested, Irritating to eyes. No known chronic health hazards.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure
EYES - Irritation; SKIN - May produce drying upon prolonged contact; INHALATION - May produce irritation; INGESTION - Irritation of gastrointestinal tract

Medical Conditions
Generally Aggravated by Exposure
Unknown

Emergency and First Aid Procedures
SKIN - Flush with water; EYES - Flush with water for fifteen (15) minutes. See a physician immediately; INHALATION - If mists are produced and irritation occurs, leave area. Do not return until mist has dissipated. If irritation persists, see a physician. INGESTION - Drink milk or water. DO NOT INDUCE VOMITING. If gastric irritation persists, see a physician.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Contain spill. Dilute with water.

Waste Disposal Method
Diluted material may be flushed into sewer.

Precautions to Be Taken in Handling and Storing
Store in a cool, dry place.

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type)
N/A

Ventilation		
	Local Exhaust	Special
		None
	Mechanical (General) X	Other

Protective Gloves
Rubber

Eye Protection
N/A

Other Protective Clothing or Equipment
N/A

Work/Hygiene Practices

Mobley Industrial Painters 2277

2277

EPAHO103000937

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/31/2007**

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 # 2277

Generator: Mobley Industrial Painters
Address: 1220 Miller Cutoff Road
LaPorte, TX 77316

Waste Information

Name of Waste: Oily absorbents
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
General housekeeping and maintenance
Color: dark **Odor:** none **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.

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

4 pgs
DB

SECTION 1: Generator Information

Company: Mobley Industrial Painters
Address: 1220 Miller Cut-Off Rd
City, State, Zip: La Porte, TX 77571
Contact: Ronnie Springer Title: HSE
Phone No: 281-475-9120 Fax No:
24/hr Phone: 281-830-0717
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: CVA Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr
Phone No: 936-483-3662 Fax No: 936-756-1226

SECTION 3: General Description of the Waste

Name of Waste: Oily Absorbents
Detailed Description of Process Generating Waste: general housekeeping & maintance

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

Color: Dark Odor: N/A

Specific Gravity (water=1): — Density: — 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): 35 Other:
Texas State Waste Code No: [illegible], N/A
Proper U.S. DOT Shipping Name: Recycleable Oil & Absorbents
Class: / UN/NA: / PG: / RQ: /

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	/ mg/l	/ mg/l	/ %

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

EPAHO103000939

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Boom, Pad, Alkaline	99 - 100	
oil	0 - 1	

SECTION 5: Safety Related Data

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

N/A

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):

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: 8/2/07

Printed Name/Title: [signature]

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 8-8-07 Approved Rejected

Approval Number: 2277

Additional Information: $35/dm

REC

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

EPAHO103000941

(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 Subcaregory

☐ 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.

EPAHO103000942

Hydril HEIP <2278>

EPAHO103000943

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/13/2007**

Dear **Hass Dinbali**

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 # 2278

Generator: Hydril HEIP
Address: 18000 Eastex Freeway
Humble, TX 77396

Waste Information

Name of Waste: Trench sludge
TCEQ Waste Code #: 00234891
Container Type:
Detailed Description of Process Generating Waste:
Muddy and oily stormwater run-off from trenches
Color: varies **Odor:** none **pH:** 7.2
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard

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: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Hydril Company		
Address:	18000 Eastex Freeway		
City, State, Zip:	Humble, TX 77338		
Contact:	David Baran	**Title:**	Maintenance Manager
Phone No:	832-202-4494	**Fax No:**	281 985-8871
24/hr Phone:	713 302-7588		
U.S. EPA I.D. No:	TXD096617907		
State I.D.	33785	**SIC Code:**	

SECTION 2: Billing Information –X Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Trench Sludge
Detailed Description of Process Generating Waste: Muddy & Oily Storm water run-off from trenches

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

Color: Varies **Odor:** none

Specific Gravity (water=1): 1.2 **Density:** 10 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ ~1000 G

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: 00234891
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT regulated wastewater
Class: NA **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	7.2	49 mg/l	<0.25 mg/l	30%

Oil&Grease	TOC	Zinc	Copper	Nickel
3220 mg/l	N/A mg/l	N/Amg/l	N/Amg/l	0.110 mg/l

EPAHO103000945

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil	0-5	%
Water	75-90	%
Debris	20-40	%

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.
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 PERFORMED based upon the following generator knowledge:

TCLP Metals:	Below Regulatory Limits
TCLP Volatiles:	Below Regulatory Limits
TCLP Semi-Volatiles:	Below Regulatory Limits
Reactivity:	Below Regulatory Limits
Corrosivity:	Below Regulatory Limits
Ignitability:	Below Regulatory Limits

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:** 8/9/07

Printed Name/Title: David Baran

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8/13/2007 Approved Rejected

Approval Number: 2278

Additional Information: OSL Bring to CES & process for treatability if possible. If not, redirect to Republic

Charge $0.40/gal + trans $70/hr + current FSC + field service work as quoted

EPAHO103000946

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

EPAHO103000947

(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.

EPAHO103000948

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: **Joy Baker**

- CERTIFICATE OF RESULTS -

MES Lab#: 7070034
Client Sample ID: Stormwater Sample
Extended ID: Sw Trench - Hydril

Sample Collect Date: 6/26/2007 @ 3:45:00 PM **Sample Type:** Grab
Sample Receipt Date: 7/2/2007 @ 2:48:00 PM

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time	
C6 - C12 Hydrocarbons	4	< 4	mg/kg	7/4/2007 /	12:43 AM
>C12 - C28 Hydrocarbons	8	**1250**	**mg/kg**	7/4/2007 /	12:43 AM
>C28 - C36 Hydrocarbons	8	**1970**	**mg/kg**	7/4/2007 /	12:43 AM
Total TPH	20	**3220**	**mg/kg**	7/4/2007 /	12:43 AM

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time	
Vinyl chloride	0.010	0.2	< 0.010	mg/L	7/5/2007 /	10:31 PM
1,1-Dichloroethene	0.005	0.7	< 0.005	mg/L	7/5/2007 /	10:31 PM
2-Butanone	0.050	200	< 0.050	mg/L	7/5/2007 /	10:31 PM
Chloroform	0.005	6	< 0.005	mg/L	7/5/2007 /	10:31 PM
Carbon tetrachloride	0.005	0.5	< 0.005	mg/L	7/5/2007 /	10:31 PM
1,2-Dichloroethane	0.005	0.5	< 0.005	mg/L	7/5/2007 /	10:31 PM
Benzene	0.005	0.5	< 0.005	mg/L	7/5/2007 /	10:31 PM
Trichloroethene	0.005	0.5	< 0.005	mg/L	7/5/2007 /	10:31 PM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	7/5/2007 /	10:31 PM
Chlorobenzene	0.005	100	< 0.005	mg/L	7/5/2007 /	10:31 PM
1,4-Dichlorobenzene	0.005	7.5	< 0.005	mg/L	7/5/2007 /	10:31 PM
Hexachlorobutadiene	0.005	0.5	< 0.005	mg/L	7/5/2007 /	10:31 PM

TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time	
Pyridine	0.05	5	< 0.05	mg/L	7/9/2007 /	2:39 PM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	7/9/2007 /	2:39 PM
o-Cresol	0.05	200	< 0.05	mg/L	7/9/2007 /	2:39 PM
m+p-Cresol	0.05	200	< 0.05	mg/L	7/9/2007 /	2:39 PM
Hexachloroethane	0.05	3	< 0.05	mg/L	7/9/2007 /	2:39 PM
Nitrobenzene	0.05	2	< 0.05	mg/L	7/9/2007 /	2:39 PM

EPAHO103000949

- CERTIFICATE OF RESULTS -

MES Lab#: 7070034

Client Sample ID: Stormwater Sample
Extended ID: Sw Trench - Hydril

Sample Collect Date: 6/26/2007 @ 3:45:00 PM **Sample Type:** Grab
Sample Receipt Date: 7/2/2007 @ 2:48:00 PM

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	7/9/2007 /	2:39 PM
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	7/9/2007 /	2:39 PM
2,4,5 Trichlorophenol	0.05	100	< 0.05	mg/L	7/9/2007 /	2:39 PM
2,4-Dinitrotoluene	0.05	0.13	< 0.05	mg/L	7/9/2007 /	2:39 PM
Hexachlorobenzene	0.05	0.13	< 0.05	mg/L	7/9/2007 /	2:39 PM
Pentachlorophenol	0.50	100	< 0.50	mg/L	7/9/2007 /	2:39 PM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time	
Antimony	0.032	1	**0.261**	**mg/L**	7/6/2007 /	12:38 AM
Arsenic	0.014	5	**0.021**	**mg/L**	7/6/2007 /	12:38 AM
Barium	0.0005	100	**1.06**	**mg/L**	7/6/2007 /	12:38 AM
Beryllium	0.0005	0.08	**0.0031**	**mg/L**	7/6/2007 /	12:38 AM
Cadmium	0.002	1	< 0.002	mg/L	7/6/2007 /	12:38 AM
Chromium	0.002	5	**0.010**	**mg/L**	7/6/2007 /	12:38 AM
Lead	0.005	5	**0.008**	**mg/L**	7/6/2007 /	12:38 AM
Nickel	0.003	70	**0.110**	**mg/L**	7/6/2007 /	12:38 AM
Selenium	0.024	1	**0.051**	**mg/L**	7/6/2007 /	12:38 AM
Silver	0.002	5	< 0.002	mg/L	7/6/2007 /	12:38 AM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	7/5/2007 /	9:43 PM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time	
Hydrogen Cyanide	0.25	< 0.25	mg/kg	7/5/2007 /	2:15 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: ASB Date / Time	
Hydrogen Sulfide	0.25	**49.0**	**mg/kg**	7/3/2007 /	4:40 PM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: CL Date / Time	
pH		**7.20**		7/6/2007 /	10:15 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time	
Flashpoint		**>150**	**deg F**	7/18/2007 /	9:45 AM

EPAHO103000950

- CERTIFICATE OF RESULTS

MES Lab#: 7070034

Client Sample ID: Stormwater Sample
Extended ID: Sw Trench - Hydril

Sample Collect Date: 6/26/2007 @ 3:45:00 PM **Sample Type:** Grab
Sample Receipt Date: 7/2/2007 @ 2:48:00 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Monday, July 30, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103000951

CHANNEL SHIPYARD 0079

EPAHO103000952

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/24/2007**

Dear **Chris Zardeneta**

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 # 2279

Generator: Channel Shipyard
Address: 999 South Lynchburg Road
Baytown, TX 77562

Waste Information

Name of Waste: Caustic
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Caustic from barge cleaning
Color: dark **Odor:** mild **pH:** 13-14
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
Standard 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.

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: Channel Shipyard
Address: 999 South Lynchburg Rd
City, State, Zip: Baytown TX 77562
Contact: Alan Bonds Title:
Phone No: 281-~~471~~ 424-1581 Fax No:
24/hr Phone: Same
U.S. EPA I.D. No: TXD 008097271
State I.D. SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: GULF STATES ENVIRONMENTAL Solutions INC
Address: P.O. BOX 876
City, State, Zip: TOMBALL TEXAS 77377
Contact: CHRIS ZARDENETA Title: AGENT
Phone No: 281-433-8931 Fax No: 832-442-3247

SECTION 3: General Description of the Waste

Name of Waste: caustic
Detailed Description of Process Generating Waste: ~~unused product~~ caustic from ~~cleaning~~ barge cleaning

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

Color: Dark Odor: mild

Specific Gravity (water=1): 1.05 Density: 9.5 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 5000

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: Recyclable material
Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution
Class: 8 UN/NA: UN1824 PG: II RQ: na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7150	8-14	0 mg/l	0 mg/l	0-5 %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO103000954

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Sodium Hydroxide Solution	95-100	%
Solids	1-5	%

SECTION 5: Safety Related Data

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

X 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):

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 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: Alan Bonds **Date:** 8-17-07

Printed Name/Title: Alan Bonds V.P.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Morgan

Date: 8-24-07 (Approved) Rejected

Approval Number: 2279

Process Facility Information: Complete Inbound load report
Check pH, density
Check for no oil+grease
Check amount of solids
$0.20/gal for 0% solids
Solid surcharge $0.05/gal/% solid above 0%

RECYCLE

EPAHO103000955

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

EPAHO103000956

(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.

EPAHO103000957

LUBRIZOL - BAYPORT <2280>

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/10/2007**

Dear **Jan McClain**

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 # 2280

Generator: Lubrizol - Bayport
Address: 12801 Bay Area Blvd. (Attn: Frank Hejtmanek)
Pasadena, TX 77507

Waste Information

Name of Waste: Wastewater containing trace alcohol
TCEQ Waste Code #: 00052051
Container Type: vac box
Detailed Description of Process Generating Waste:
Waste produced in production of a product
Color: clear/yellow **Odor:** slight alcohol **pH:** 4-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
Standard 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

SECTION 1: Generator Information

Company:	The Lubrizol Corporation		
Address:	12801 Bay Area Boulevard		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Frank Hejtmanek	Title:	
Phone No:	(832) 260-7843	Fax No:	(832) 260-7701
24/hr Phone:	Same		
U.S. EPA I.D. No:	TXD000642348		
State I.D.	30325	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: Waste water containing trace achohol
Detailed Description of Process Generating Waste: waste produced in production of a product

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

Color: Clear/yellow Odor: Slight alcohol

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

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 Other: One-Time
Texas State Waste Code No: 0005-205-1
Proper U.S. DOT Shipping Name: Non-Haz Waste Water (alcohol exemption)
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point 50 F	pH 4-11	Reactive Sulfides <20mg/l	Reactive Cyanides <20mg/l	Solids 0%
Oil&Grease N/Amg/l	TOC N/amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	90-96	%
MeOH	3-5	%
Aibul Amul Alcohol	3-5	%

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 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: 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 ar attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willf 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: Frank Heitmanek **Date:** 08/03/2007

Printed Name/Title: Frank Heitmanek

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Boyd Additional Information: $0.30/gal

Date: 8-10-07 (Approved) Rejected + Trans + FSC

Approval Number: 2280 16

EPAHO103000961

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 1.56 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

EPAHO103000962

(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.

EPAHO103000963

PPG Industries, Inc [redacted]81

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/10/2007**

Dear **Dave Roe**

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 # 2281

Generator: PPG Industries, Inc
Address: 1901 Avenue H & South 16th Street
LaPorte, TX 77572

Waste Information

Name of Waste: Methylene chloride aqueous waste
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Polycarbonate production
Color: clear to slight milky co **Odor:** mild organic **pH:** 3-11
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
see MSDS

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:	PPG Inustries, nc.		
Address:	1901 Avenue H & 16th Street		
City, State, Zip:	La Porte, Tx 77571		
Contact:	Jeffrey Grimes	**Title:**	Environmental Engineer
Phone No:	281-471-5147 x210	**Fax No:**	281-470-2985
24/hr Phone:	281-471-0943		
U.S. EPA I.D. No:	TXD000356907		
State I.D.	30553	**SIC Code:**	2869

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: Methylene chloride aqueous waste
Detailed Description of Process Generating Waste: Polycarbonate production

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

Color: clear to slight miky color **Odor:** mild organic

Specific Gravity (water=1): ≥1 **Density:** ~~unknown~~ 9-10

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:			45,000	

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** almost daily during period of production
Texas State Waste Code No: PRODUCT
Proper U.S. DOT Shipping Name: Dichloromethane
Class: 6.1 **UN/NA:** UN1593 **PG:** III **RQ:** 10

Flash Point 7150	**pH** 3-11	**Reactive Sulfides** >20 mg/l	**Reactive Cyanides** 720 mg/l	**Solids** 0 %
Oil&Grease NA mg/l	**TOC** NA mg/l	**Zinc** NA mg/l	**Copper** NA mg/l	**Nickel** NA mg/l

EPAHO103000966

SECTION 4: Physical and Chemical Data

COMPONENTS ARE	CONCENTRATION	UNIT
The waste consists of the following materials	**Ranges are acceptable**	**or %**
dichloromethane		61
methanol		19
water		21

SECTION 5: Safety Related Data

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

SECTION 6: Attached Supporting Documents

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

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
See MSDS

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the followin 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 a attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or wil omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the mater tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/29/2007

Printed Name/Title: Jeffrey Grimes/Environmental Engineer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6/29/07 Approved Rejected

Approval Number: 2281

Process Facility Information: → Trans

$0.10/lb ; $300/load + FSC
Washout $225

RECYCLE

EPAHO103000967

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

EPAHO103000968

(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, c 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.

EPAHO103000969

Vulcan CHEMICALS

MATERIAL SAFETY DATA SHEET

24 Hour Emergency Phone (316) 524-5751

Division of Vulcan Materials Company / P. O. Box 530390 • Birmingham, AL 35253-0390

I – IDENTIFICATION

CHEMICAL NAME	CHEMICAL FORMULA	MOLECULAR WEIGHT
Dichloromethane	CH_2Cl_2	84.94

TRADE NAME: Methylene Chloride, Special Grade, Aerosol Grade, Degreasing Grade

SYNONYMS: Methylene Chloride

DOT IDENTIFICATION NO.: UN 1593

II – PRODUCT AND COMPONENT DATA

COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.	% (wt.) Approx.	OSHA PEL
* Dichloromethane	75-09-2	> 98	500 ppm
* Propylene oxide	75-56-9		100 ppm

Vulcan Chemicals recommends that its customers minimize employee exposure. Vulcan therefore suggests that its customers consider adopting the lower of the current OSHA PEL or the ACGIH TLVs for the purpose of evaluating employee exposures. The TLVs recommended by the ACGIH have been updated on a continuing basis. See Section VI.

* Denotes chemical subject to reporting requirements of Section 313 of Title III of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40 CFR Part 372

III – PHYSICAL DATA

APPEARANCE AND ODOR	SPECIFIC GRAVITY
Clear, colorless liquid; mildly sweet odor	1.31 @ 25/25°C
BOILING POINT	**VAPOR DENSITY IN AIR (Air = 1)**
103.1°F (39.5°C)	2.9
VAPOR PRESSURE	**% VOLATILE, BY VOLUME**
352 mm Hg @ 20°C	100
EVAPORATION RATE (ether = 1): 0.7	**SOLUBILITY IN WATER** 1.32 gm/100 gm @ 25°C

IV – REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
Stable	Avoid contact with open flame, electric arcs, or other hot surfaces which can cause thermal decomposition.

INCOMPATIBILITY (Materials to avoid)

Strong alkalies, oxygen, nitrogen peroxide, sodium, potassium, and other oxidizers and reactive metals. Refer to Section VIII for additional information on aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride, phosgene, chlorine.

HAZARDOUS POLYMERIZATION

Will not occur.

V - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (Method used)	FLAMMABLE LIMITS IN AIR
None (TCC)	12 - 19% (Vol.) @ 100°C

EXTINGUISHING AGENTS
Water fog, dry chemical, foam, carbon dioxide

NFPA Hazard Ratings:
Health 2, Flammability 1, Reactivity 0

UNUSUAL FIRE AND EXPLOSION HAZARDS
Concentrated vapors can be ignited by high intensity ignition source. Firefighters should wear self-contained positive pressure breathing apparatus due to thermal decomposition products, and avoid skin contact.

VI - TOXICITY AND FIRST AID

EXPOSURE LIMITS (When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace.)
Methylene Chloride: ACGIH: 50 ppm TWA (8 hr) OSHA: 500 ppm TWA (8 hr) 1,000 ppm Ceiling (Odor threshold approximately 200-300 ppm; causes olfactory fatigue).

Propylene Oxide: ACGIH: 20 ppm TWA (8 hr) OSHA: 100 ppm (8 hr) TWA
Consumption of alcoholic beverages may increase the potential for development of toxic effects resulting from exposure to this product.

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TLVs.
Because of the wide variation in individual susceptibility, these exposure limits may not be applicable to all persons and those with medical conditions listed below.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Alcoholism, acute and chronic liver and kidney disease, chronic lung disease, anemia, coronary disease or rhythm disorders of the heart.

ACUTE TOXICITY Primary route(s) of exposure: ☒ Inhalation ☐ Skin Absorption ☐ Ingestion

Inhalation: Major route of potential exposure. Methylene chloride depresses the central nervous system. Concentrations between 900-1,000 ppm may cause dizziness. Nausea, headache, and vomiting can occur at concentrations above 2,000 ppm. At 7,000 ppm, numbness and tingling in arms and legs and rapid heartbeat have occurred. Loss of consciousness and death have occurred at levels above 9,000 ppm, if exposure is prolonged.

Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and other carbon monoxide sources.

Skin: Liquid methylene chloride is painful and irritating if confined to skin by gloves, clothing, etc. Prolonged or repeated contact may cause irritation, defatting of skin, and dermatitis. Absorption through intact skin is possible if contact with liquid is prolonged.

Propylene oxide as a pure substance, has caused allergic reaction if repeated contact occurs.

Eyes: Liquid may cause temporary irritation with temporary corneal injury. Vapors may irritate eyes.

Ingestion: Single dose toxicity low to moderate. If vomiting occurs, methylene chloride can be aspirated into lungs, which can cause chemical pneumonia and systemic effects.

FIRST AID

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Call a physician.
Skin: Remove contaminated clothing and shoes. Wash exposed area thoroughly with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.
Eyes: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.
Ingestion: Do not induce vomiting. Contact physician or emergency medical facility immediately.

NOTE TO PHYSICIAN: Adrenalin should never be given to person overexposed to methylene chloride.

CHRONIC TOXICITY

The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death. Chronic overexposures to methylene chloride have caused liver and kidney toxic effects in experimental animals.

Carcinogenicity: Methylene chloride has been evaluated for possible cancer causing effects in laboratory animals. Inhalation studies at concentrations of 2,000, and 4,000 ppm increased the incidence of malignant liver and lung tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in female rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1,500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250 mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3,500 ppm lifetime did not show an increased incidence of tumors.

Propylene oxide has caused increased incidence of nasal tumors in rats exposed by inhalation, forestomach tumors in rats exposed by gavage (forced-fed in oil) and injection site tumors when injected under the skin of rats.

The International Agency for Research on Cancer (IARC) has concluded that, with respect to methylene chloride, there is sufficient evidence of the carcinogenicity to experimental animals and inadequate evidence of the carcinogenicity to humans, resulting in a classification as a 2B animal carcinogen. The NTP has identified methylene chloride as an animal carcinogen. Methylene chloride and propylene oxide are listed on the IARC and NTP carcinogen lists but not by OSHA. The State of California has listed methylene chloride under Proposition 65 as a chemical known to the state to cause cancer.

Epidemilogy studies of 751 humans chronically exposed to methylene chloride, in the workplace of which 252 were exposed for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

Reproductive Toxicity: Reproductive toxicity tests have been conducted to evaluate the potential adverse effects methylene chloride may have on reproduction and offspring of laboratory animals. The results indicate that methylene chloride does not cause birth defects in laboratory animals.

VII – PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Where vapor concentration exceeds or is likely to exceed 50 ppm methylene chloride, an approved full face respirator with organic vapor cannister is acceptable. Approved self-contained breathing apparatus or air line respirator, with full facepiece, is required for methylene chloride concentrations above 1,000 ppm and for spills and/or emergencies. Follow any applicable respirator use standards and regulations.

VENTILATION

Do not use in closed or confined space. Open doors and/or windows. Use ventilation to maintain exposure levels of methylene chloride below 50 ppm (TWA).

SKIN PROTECTION

Wear solvent-resistant gloves such as Viton, polyvinyl alcohol, or equivalent. Solvent-resistant boots, apron, headgear and/or faceshield should be worn where splashing is possible.

EYE PROTECTION

Wear safety glasses. Contact lenses should not be worn. Chemical goggles and/or face shields should be worn where splashing is possible.

HYGIENE

Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom.

OTHER CONTROL MEASURES

To determine exposure level(s), monitoring should be performed regularly. Safety shower and eyewash station should be available.

NOTE: Protective equipment and clothing should be selected, used, and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer or the Vulcan Chemicals Technical Service department.

VIII - STORAGE AND HANDLING PRECAUTIONS

Follow protective controls set forth in Section VII when handling this product.
Store labeled sealed containers in a cool, dry, well-ventilated area out of sunlight. Prevent water or moist air from entering storage tanks or containers. Do not cut or weld on empty or full drums. Aluminum equipment should not be used for storage and/or transfer. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions. Consult equipment supplier for further information. Vapors are heavier than air and will collect in low areas. Do not enter confined spaces such as tanks or pits without following proper entry procedures as required by 29 CFR 1910.146. Do not remove or deface label. Do not reuse drum without recycling or reconditioning in accordance with any applicable federal, state or local laws.

SARA Title III Hazard Categories: Immediate Health, Delayed Health

IX - SPILL, LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. If spill occurs indoors, turn off air conditioning and/or heating system, to prevent vapors from contaminating entire building. Clean up area (wear protective equipment - refer to Section VII) by mopping or with absorbent material and place in closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. Reportable Quantity (RQ) is 1000 lbs. Notify National Response Center (800/424-8802) of uncontained releases to the environment in excess of the RQ.

WASTE DISPOSAL METHOD

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

X - TRANSPORTATION

DOT HAZARD CLASSIFICATION

Dichloromethane, 6.1, UN 1593, PG III, RQ

PLACARD REQUIRED

KEEP AWAY FROM FOOD, 1593, Class 6

LABEL REQUIRED

KEEP AWAY FROM FOOD, Class 6
Label as required by OSHA Hazard Communication Standard, and any applicable state and local regulations.

Medical Emergencies

Call collect 24 hours a day for emergency toxicological information 415/821-5338

Other Emergency Information

Call 316/524-5751 (24 hours)

For any other information contact:

Vulcan Chemicals
Technical Service Department
P.O. Box 530390
Birmingham, AL 35253-0390
800/873-4898
8 AM to 5 PM Central Time
Monday Through Friday

DATE OF PREPARATION: September 1, 1993

NOTICE: Vulcan Chemicals believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be construed with nor followed in violation of applicable laws, regulation, rules or insurance requirements.

NO WARRANTY IS MADE, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

EPAHO103000973

Kathleen Hartnett White, *Chairman*
Larry R. Soward, *Commissioner*
H. S. Buddy Garcia, *Commissioner*
Glenn Shankle, *Executive Director*

JUN

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 5, 2007

Mr. Matt Bowman
CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021-3208

Re: CES Environmental Services, Inc.
Solid Waste Registration Number: 30900
Central Registry Customer/Reference Number: CN600618946 / RN100693282
Mail Log Number: 7561

Dear Mr. Bowman:

This is in response to correspondence dated May 23, 2007 notifying the Texas Commission on Environmental Quality (TCEQ) that your facility intends to receive and recycle a mixture of water, methanol, and methylene chloride from pharmaceutical manufacturing. The TCEQ appreciates your notification.

The information contained in the notification satisfies the notification requirements in 30 Texas Administrative Code (TAC) Section (§)335.6. The notification has been forwarded to the Industrial and Hazardous Waste Section of Record Services.

The TCEQ would like to remind you that your facility remains responsible for insuring that:

- The subject waste is managed in accordance with 30 TAC §335.4 (General Prohibitions) and §26.121 of the Texas Water Code; and
- Should any changes occur or additional information come to light concerning
  (1) the composition of the waste
  (2) the process by which the waste is generated
  (3) the manner in which the waste is managed or
  (4) any other information referenced in 30 TAC §335.6 is provided to the TCEQ.

Please note that this letter is not an approval of the subject recycling activity. It is only an acknowledgment of the notification to the TCEQ of that activity.

If you have any questions regarding this matter please contact me at (512) 239-6412. If responding by letter, please use Mail Code (MC-130) in the address.

Sincerely,

/f Scott Green

Scott Green, Project Manager
Industrial and Hazardous Waste Permit Section
Waste Permits Division

MSG/ff

EPAHO103000974

Procedures for handling of PPG water and methylene chloride mixture

1) Stage both trailers, side by side, in the unloading area.
2) Ground both trailers
3) Connect the vapor return lines of both trailers to the scrubber
4) Wearing a full face organic acid respirator, sample the inbound load, top to bottom for an inbound retain sample and to gauge the number of inches of methylene chloride on the bottom of the inbound trailer.
5) Close the dome lid, but do not seal it!
6) Using a 2" hose, connect the inbound trailer to the top connection on the interface vessel.
7) Using a 2" hose, connect the outbound trailer to the bottom connection on the interface vessel (via the centrifugal pump)
8) Slowly decant the methylene chloride from the inbound trailer (in batches) into the interface vessel. Allow to settle for 30 seconds, then pump the settled methylene chloride from the interface vessel into the methylene chloride product trailer.
9) Do this transfer very slowly (in batches) so as not to transfer any of the water into the methylene chloride product trailer. Be sure to empty all the methylene chloride into the interface vessel...it is ok to unload some water from the inbound trailer into the interface vessel to be sure all the methylene chloride has been removed from the inbound trailer.
10) During the transfer, always leave at least 12" of methylene chloride and 12" of water in the interface vessel so that there is sufficient liquid levels on either side of the interface. This will ensure complete separation.
11) When all the methylene choride (and a little of the water) has been removed from the inbound trailer, stop unloading, disconnect all the vapor control lines, shut all valves, lids, etc. Move the inbound trailer (now containing only water and trace levels of solubalized methylene choride to the Main Process Facility for distillation to remove all remaining traces of methylene choride.
12) In the Main Process Facility, be sure the accumulator vessel is hooked up to the scrubber prior to unloading into the distillation tank.
13) Using a 2 or 3" hose, connect the trailer to the distillation tank. Ground the trailer. Crack open the manway on the trailer to allow air to enter the trailer during the unloading process. Using the centrifugal pump of the distillation tank, unload the wastewater into the distillation tank.
14) The trailer, now empty, is ready to be returned to PPG
15) Turn on the steam to the distillation tank. Use the thermometer on the distillation tank and the steam regulator to maintain the temperature at between 120 and 130 degrees F. Continue to boil the Mecl2 off until no more is being received in the accumulator vessel....expect 50 to 80 gallons of per inbound trailer. For the initial few loads, we should test the mecl2 levels in to water to ensure we are getting good removal. Once distillation is finished and the water has been tested (first few loads only), the water should be drained from the distillation tank into the trough for regular wastewater treatment.

16) When it is time to empty the accumulator vessel, disconnect the vapor recovery line and close the vessel. Use a forklift to take the vessel down to the interface vessel. Hook up all vapor recovery lines and unload this accumulator into the interface vessel. Return the accumulator to its place in the Main Processing Area.

Note: We must get a QC report on each load of Mecl2 produced prior to selling.

Matt Bowman

From: Matt Bowman [mbowman@cesenvironmental.com]
Sent: Tuesday, June 12, 2007 5:04 PM
To: 'Grimes, Jeffrey'
Cc: 'larce@cesenvironmental.com'; 'chickman@cesenvironmental.com'; 'Greg Bowman'
Subject: RE: One last question

Concerning the wastewater, this will be addressed as follows:
40 CFR 261.3(2)(iv) and 40 CFR 261.3 (2) (iv) (B) state that "....however, the followinc mixtures of solid wastes and hazardous wasted listed in subpart D of this part are not hazardous wastes....if the generator can demonstrate that the mixture cosists of wastewater the sicharge of which is subject to regulation under either section 402 or section 307 (b) of the Clean Water Act...and; One or more of the following spent solvent listed in 261.31 - methylene chloride,.....provided that the maximum total weekly usac of these solvents (other than the amounts that can be demonstrated that not to be discharged to wastewater)divided by the average weekly flow of wqastewater in to the headworks of the facility's wastewater treatment or pretreatment system does not exceed parts per million."

Concerning the residues, they will have to be managed as F002 hazardous waste. However, expect little if any residues based on our system of treatment and management.

Also, I need to know by tomorrow if we are going to proceed with the project in order tc be prepared in time. Please advise me immediately as to the status so we can make the proper preparations.

Best Regards,
Matt

-----Original Message-----
From: Grimes, Jeffrey [mailto:jgrimes@ppg.com]
Sent: Tuesday, June 12, 2007 9:27 AM
To: mbowman@cesenvironmental.com
Subject: One last question

Matt,

You state the residue from wastewater treatment will be sent out as non-haz. How can y do this in light of the fact it will be derived from a listed, F002, waste?

Thanks,

Jeff

EPAHO103000977

IN the state of Texas, you are allowed to recycle hazardous wastes without a permit under certain restrictive conditions. The main condition is that you do not store them prior to processing/recycling. As you request, we must be able to prove that we meet the definition of a designated facility per 40 CFR 262.20. This states "a generator must designate on the manifest one facility which is permitted to handle the waste described on the manifest".

Now, referring to 30 TAC, 335.1(32), this section defines a designated facility as such: "Designated facility - A Class 1 or hazardous waste storage, processing, or disposal facility which has received an EPA permit (or a facility with interim status) in accordance with the requirements of 40 CFR Parts 270 and 124; a permit from a state authorized in accordance with 40 CFR Part 271 (in the case of hazardous waste); a permit issued pursuant to 335.2 of this title (relating to Permit Required (in the case of nonhazardous waste); or that is regulated under 335.24(f), (g), or (h) of this title (relating to Requirements for Recyclable Materials and Nonhazardous Recyclable Materials) ...."

Accordingly, CES, having met the conditions listed in 335.24(f)(1) and (2), can be used as a "designated facility" by PPG to receive and recycle the hazardous waste ("Recyclable Material" in this case).

If you have further questions, please continue to direct them to my attention!

Matt

-----Original Message-----
From: Grimes, Jeffrey [mailto:jgrimes@ppg.com]
Sent: Tuesday, June 12, 2007 10:01 AM
To: mbowman@cesenvironmental.com
Subject: Ok, not the last question
Importance: High

Matt,

GO legal also wants to know what permits you have in place that allow you to comply with 262.20(b) - manifest to a designated facility that is permitted to treat, store, dispose (recycle in your case) hazardous waste. Have you received hazardous wastes on manifests before and under what circumstances.

Thanks

Jeff

2282
Citgo Refinery

EPAHO103000979

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **8/17/2007**

Dear **Randy Woolvine**

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 # 2282

Generator: Citgo Refinery
Address: 4401 LA Hwy 108
Lake Charles, LA 70665

Waste Information

Name of Waste: Sulfidic caustic solution
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Merox processing of fuels using caustic to remove sulfides
Color: lt brown to lt red **Odor:** sulfur smell/H2S smell **pH:** 10.5-12.4
Physical State:
Incompatibilities: MSDS
Safety Related Data/Special Handling:
Normal 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

SECTION 1: Material Producer Information

Company: Citgo Petroleum Corporation (Lake Charles LA Refinery)
Address: 4401 LA Highway 108
City, State, Zip: Sulphur, LA 70665
Contact: (Ms) Randy Woolwine Title: Purchasing Agent
Phone No: 337-708-8274 Fax No: 337-708-6289
24/hr Phone:
~~U.S. EPA I.D. No:~~ NA
~~State I.D.~~ NA SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Citgo Accounts Payable
Address: P.O. Box 4970
City, State, Zip: Houston, TX 77210-4970
Contact: (Ms) Randy Woolwine Title: Purchasing Agent
Phone No: 337-708-8274 Fax No: 337-708-6289

SECTION 3: General Description of the Material / Product

Name of Material / Product: Sulfidic Caustic Solution
Detailed Description of Process Generating or Producing the Material / Product: Merox Processing of fuels using caustic to remove Sulfides

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

Color: Lt Brown to Lt Red Odor: Sulfur Smell / H_2S Smell

Specific Gravity (water=1): 1.03 to 1.1 Density: 8.6-9.2 lbs/gal

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 4500 gallons ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly ☑ Daily
Number of Units (containers): 4 Other: ____

PRODUCT

Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution
Class: 8 UN/NA: UN 1824 PG: II RQ: NA
DOT Hazard Class

Flash Point	pH	N/A	N/A	Solids
NA	10.5 to 12.7			0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103000981

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	88 to 97 %	by Volume
Sodium Hydroxide	3 to 12 %	by Volume

SECTION 5: Safety Related Data

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

Normal PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

See Attached MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

See Attached MSDS

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:** 2-9-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: Robert Reynolds

Date: 2-9-07 Approved / Rejected

Approval Number: 2282

Process Facility Information:

RECYCLE

Please check with Clark Hickman

EPAHO103000982

MSDS Number: **S4040** * * * * * *Effective Date: **01/25/06** * * * * * Supercedes: **07/07/04***

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.

SODIUM HYDROXIDE SOLUTIONS AND CONCENTRATES

1. Product Identification

Synonyms: Sodium hydroxide, 0.2 to 2.0 normal volumetric solutions; DILUT-IT® analytical concentrates; Sodium Hydroxide Concentrate Solution StandARd®
CAS No.: 1310-73-2
Molecular Weight: 40.00
Chemical Formula: NaOH in water
Product Codes:
J.T. Baker: 0328, 0329, 0387, 0388, 0389, 0390, 3726, 4687, 4691, 4715, 5633, 5634, 5635, 5636, 5638, 5665, 5667
Mallinckrodt: 4693, H361, H380

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Hydroxide	1310-73-2	0.8 - 8%	Yes
Water	7732-18-5	92 - 99%	No

EPAHO103000983

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe
Flammability Rating: 0 - None
Reactivity Rating: 2 - Moderate
Contact Rating: 4 - Extreme (Corrosive)
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: White Stripe (Store Separately)

Potential Health Effects

The health effects from exposure to diluted forms of this chemical are not well documented. They are expected to be less severe than those for concentrated forms which are referenced in the descriptions below.

Inhalation:
Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.
Ingestion:
Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appears days after exposure.
Skin Contact:
Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.
Eye Contact:
Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.
Chronic Exposure:
Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

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4. First Aid Measures

EPAHO103000984

Inhalation:
Remove to fresh air. Get medical attention for any breathing difficulty.
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.
Skin Contact:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing 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.

Note to Physician:
Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

5. Fire Fighting Measures

Fire:
Not considered to be a fire hazard.
Explosion:
Not considered to be an explosion hazard.
Fire Extinguishing Media:
Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat.
Special Information:
Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.
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.

J. T. Baker NEUTRACIT®-2 or BuCAIM® caustic neutralizers are recommended for spills of this product.

EPAHO103000985

7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Protect from freezing. Always add the caustic to water while stirring; never the reverse. 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. Do not store with aluminum or magnesium. Do not mix with acids or organic materials.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
Sodium hydroxide:
-OSHA Permissible Exposure Limit (PEL):
2 mg/m3 Ceiling
-ACGIH Threshold Limit Value (TLV):
2 mg/m3 Ceiling

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.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) 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 particulate respirator (NIOSH type N100 filters) 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. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. 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.

EPAHO103000986

9. Physical and Chemical Properties

Physical data is displayed for a 5% solution of sodium hydroxide.

Appearance:
Clear, colorless solution.

Odor:
Odorless.

Solubility:
Miscible in water.

Density:
5% solution: 1.05

pH:
14.0

% Volatiles by volume @ 21C (70F):
No information found.

Boiling Point:
102C (216F) (5% solution)

Melting Point:
-4C (25F) (5% solution)

Vapor Density (Air=1):
No information found.

Vapor Pressure (mm Hg):
No information found.

Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:
No hazardous decomposition products.

Hazardous Polymerization:
Will not occur.

Incompatibilities:
Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

Conditions to Avoid:
Heat, moisture, incompatibles.

EPAHO103000987

11. Toxicological Information

Sodium hydroxide: irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe. Investigated as a mutagen.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Sodium Hydroxide (1310-73-2)	No	No	None
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. 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: SODIUM HYDROXIDE SOLUTION
Hazard Class: 8
UN/NA: UN1824
Packing Group: II
Information reported for product/size: 460LB

International (Water, I.M.O.)

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

EPAHO103000988

Hazard Class: 8
UN/NA: UN1824
Packing Group: II
Information reported for product/size: 460LB

15. Regulatory Information

--------\Chemical Inventory Status - Part 1\--------

Ingredient	TSCA	EC	Japan	Australia
Sodium Hydroxide (1310-73-2)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

--------\Chemical Inventory Status - Part 2\--------

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Sodium Hydroxide (1310-73-2)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

--------\Federal, State & International Regulations - Part 1\--------

Ingredient	-SARA 302- RQ	TPQ	------SARA 313------ List	Chemical Catg.
Sodium Hydroxide (1310-73-2)	No	No	No	No
Water (7732-18-5)	No	No	No	No

--------\Federal, State & International Regulations - Part 2\--------

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Sodium Hydroxide (1310-73-2)	1000	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

Australian Hazchem Code: 2R
Poison Schedule: S5
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: **3** Flammability: **0** Reactivity: **0**

EPAHO103000989

Label Hazard Warning:
DANGER! CORROSIVE. HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.
Label Precautions:
Do not get in eyes, on skin, or on clothing.
Do not breathe mist.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Label First Aid:
If swallowed, give several glasses of water or milk to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing 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. In all cases get medical attention immediately.
Product Use:
Laboratory Reagent.
Revision Information:
MSDS Section(s) changed since last revision of document include: 3.
Disclaimer:
****

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
****

Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

EPAHO103000990

CES Environmental Services, Inc.

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

Material / Product Approval Letter

Date **1/8/2009**

Dear **Randy Woolvine**

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 # PA-2282

Expiration Date 7/9/2009

Producer: Citgo Refinery
Address: 4401 LA Hwy 108
Lake Charles, LA 70665

Material / Product Information

Name of Material / Product Sulfidic caustic solution
Container Type: barge

Detailed Description of Process Generating or Producing the Material / Product:
Merox processing of fuels using caustic to remove sulfides

Color: lt brown to lt red **Odor:** sulfur smell/H2S smell **pH:** 10.5-12.4
Physical State:
Incompatibilities: MSDS
Safety Related Data/Special Handling:
Normal 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.

MBJ
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 No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

Need ~~Approved~~ updated in system.

P# 2282-PA

SECTION 1: Material Producer Information

Company :	Citgo Refinery		
Address :	4401 LA Hwy 108 4401 LA Hwy 108		
City, State, Zip :	Lake Charles LA 70665		
Contact :	Randy Woolvine	**Title :**	Purchasing Agent
Phone No :	(337) 708-6344	**Fax :**	(337) 708-6289
24 / HR Phone :			
U.S EPA I.D No :	na		
State I.D :	na	**SIC Code**	na

SECTION 2: Billing Information

Company :	Citgo Accounts Payable		
Address :	P. O. Box 4970		
City, State, Zip :	Houston TX 77210		
Contact :	Randy Woolvine	**Title :**	
Phone No :	(337) 708-8274	**Fax :**	(337) 708-6289

SECTION 3: General Description of the Material / Product

Name of Mateiral / Product : Sulfidic caustic solution

Detailed Description of the Process Generating or Producing the Material / Product:

Merox processing of fuels using caustic to remove sulfides

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

Color : lt brown to lt red **Odor :** sulfur smell/H2S smell

Specific Gravity (Water=1) : 1.03 **Density :** 8.6-9.2 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) barge

Container Size : 4500 / 340K

Number Of Units : 2

Proper U.S. DOT Shipping Name : Sodiu Hydroxide Solution

Class : 8 **UN/NA :** UN1824 **PG :** II **RQ :** na

EPAHO103000992

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	10.5-12.4	na mg/l	na mg/l	0 %
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 %
Water	88-97	%
Sodium hydroxide	3-12	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Normal PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
MSDS

SECTION 8: Material Producer'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 : _____ **Date :** 7/9/2007

Printed Name / Title : n/a - Product /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :
Please check with Clark Hickman

Compliance Officer : Prabhakar Thangudu

Date : 7/9/2007 **Status :** Approved Rejected

Approval Number : PA-2282

EPAHO103000993

Rain FOR Rent <2283>

EPAHO103000994

TC
LAB
T. 34
8-4-09

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 **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 # 2283

Expiration Date 8/15/2008

Generator: Rain For Rent
Address: 2712 Battleground Rd.
LaPorte, TX 77571

Waste Information

Name of Waste: Oily debris/soil
TCEQ Waste Code #: CESQ3011
Container Type: roll off box
Detailed Description of Process Generating Waste:
Used oil, water, soil and rust scale from frac tank rental facility
Color: dark **Odor:** none **pH:** na
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
none

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.

D283

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: Rain for Rent
Address: 2712 Battleground Rd.
City: Laporte **State:** TX **Zip:** 77571
Contact: Harold Mathews **Title:**
Phone Number: 281.479.4500 **Fax Number:** 281.479.3092
24/hr Phone Number:
US EPA ID No: TXCESQG
State ID No: TXCESQG **SIC Code:**

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

Company: Preston Environmental
Address: 10100 Chapel Hill drive
City: Denham Springs **State:** LA **Zip:** 70727
Contact: Robby Mersiovsky **Title:**
Phone Number: 713.882.7740 **Fax Number:** 225.664.8655

SECTION 3: General Description of the Waste

Name of Waste: Oily debis / soil
Detailed Description of Process Generating Waste:
used oil, water, soil and rust scale from frac tank rental facility

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

Color: dark **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

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

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: CESQ3011

Proper US DOT Shipping Name: Non-RCRA Non-DOT regualted Material
Class: na **UN/NA:** na **PG:** na **RQ:** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	na mg/l	na mg/l	100 %
Oil & Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	>1500 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 %
used oil	5	%
rainwater	2	%
rust scale and soil	93	%

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.

analysis

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:
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 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:** 5/12/08

Printed Name/Title: Robert Meersteg

CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer:		
Date:	☐ 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

☐ 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.

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

Waste Pre-Acceptance/Approval Letter

Date **8/15/2007**

Dear **Robert Meriovsky**

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 # 2283

Generator: Rain For Rent
Address: 2712 Battleground Rd.
LaPorte, TX 77571

Waste Information

Name of Waste: Oily debris/soil
TCEQ Waste Code #: CESQ3011
Container Type: roll off box
Detailed Description of Process Generating Waste:
Used oil, water, soil and rust scale from frac tank rental facility
Color: dark **Odor:** none **pH:** na
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
none

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:	Rain for Rent		
Address:	2712 Battleground Rd		
City, State, Zip:	LaPorte, Texas 77571		
Contact:	Harold Mathews	**Title:**	manager
Phone No:	281-479-4500	**Fax No:**	
24/hr Phone:	same		
U.S. EPA I.D. No:	none		
State I.D.	none	**SIC Code:**	none

SECTION 2: Billing Information – ☐ Same as Above

Company:	Select Environmental		
Address:	223 McCarty		
City, State, Zip:	Houston, TX. 77029		
Contact:	Robby Mersiovsky	**Title:**	Sales
Phone No:	713-882-7740	**Fax No:**	713-672-9425

SECTION 3: General Description of the Waste

Name of Waste: oily debris/soil
Detailed Description of Process Generating Waste: used oil, water, soil, & rust scale from frac tank rental facility

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

Color: dark **Odor:** none

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

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ 20 yrd rolloff

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQG 3011
Proper U.S. DOT Shipping Name: Non RCRA / Non DOT Regulated mate
Class: 2 **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point NA	**pH** NA	**Reactive Sulfides** NA mg/l	**Reactive Cyanides** NA mg/l	**Solids** 100 %
Oil&Grease >15a mg/l	**TOC** >15a mg/l	**Zinc** NA mg/l	**Copper** NA mg/l	**Nickel** NA mg/l

EPAHO103001003

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
used oil	5%	
rain water	2%	
rust scale/soil	93%	

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.
see analytical

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: ____
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: [signature] as agent for generator **Date:** 8/7/07

Printed Name/Title: Robert Hurwitz

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Flanagan

Date: 8-15-07 Approved Rejected

Approval Number: 2283

Additional Information: terminate manifest @ CES & redirect to BFI

disposal: $85/yd + trans: ~~$~~ $300/trip
Box return: $100 + FSC

EPAHO103001004

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

EPAHO103001005

(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.

EPAHO103001006

ENVIRON EXPRESS LABORATORIES
401 N. 11TH STREET
LA PORTE, TEXAS 77571
281/471-0951
281/471-5821 (FAX)

FACSIMILE COVER

COMPANY: Select Environmental

PLEASE DIRECT FOLLOWING PAGE(S) TO: Robby Mersiovsky

PAGES INCLUDING COVER LETTER: 3

FAX: 713.672.9425

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this message in error, please notify us immediately by telephone and return the original message to us at the above address via postal service, at our expense.

ENVIRON EXPRESS LABORATORIES, INC.

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

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 62143.01 1of 1

Customer: Select Env.
Project ID: Rain For Rent
Project Loc: Battle Ground
Charge/P.O.:

Sample ID: Rain For Rent
Matrix: Debris
Type: Composite
RECEIVED BASIS

Environ ID: 62143.01
Sampled: 07-27-07
Received: 07-27-07
Reported: 08-01-07

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
BTEX								
Benzene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	07-30-07	13:07
Toluene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	07-30-07	13:07
Ethylbenzene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	07-30-07	13:07
Xylenes	0.029	mg/kg	--	0.015	SW846.8021B	DMB	07-30-07	13:07
Total BTEX	0.029	mg/kg			SW846.8021B	DMB	07-30-07	13:07
TOT. PET. HYDROCARBON								
GRO (Gasoline Range)	486	mg/kg	--	50	TCEQ 1005.03	DB	07-30-07	19:39
DRO (Diesel Range)	22,243	mg/kg	--	50	TCEQ 1005.03	DB	07-30-07	19:39
ORO (Oil Range)	2,908	mg/kg	--	50	TCEQ 1005.03	DB	07-30-07	19:39
TOTAL TPH	25,637	mg/kg	--	50			07-30-07	19:39
METALS (RCRA) - TCLP					SW846.1311	MN	07-27-07	
Antimony	< 0.08	mg/l	1.0	0.08	SW846.6010B	JK	07-31-07	15:04
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	07-31-07	15:04
Barium	0.72	mg/l	100	0.02	SW846.6010B	JK	07-31-07	15:04
Beryllium	< 0.05	mg/l	0.08	0.05	SW846.6010B	JK	07-31-07	15:04
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	07-31-07	15:04
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	07-31-07	15:04
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	07-31-07	15:04
Nickel	0.63	mg/l	70.0	0.05	SW846.6010B	JK	07-31-07	15:04
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	07-31-07	15:04
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	07-31-07	15:04
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	07-31-07	09:00

Definitions:
TCLP - Toxicity Characteric Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Limi TPH - Total petroleum Hydrocarbons
MQL - Method Quantation Limit
PPM - Parts Per Million
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001008

Ron Kohler

CHAIN OF CUSTODY

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~~ Robby Mersiovsky	Invoice To: SAME
Company: Select Environmental	Company:
Address: 223 McCarty	Address:
City: Houston State: TX Zip: 77029	City: State: Zip:
Phone: 713 862-7740	Phone:
Fax: 713 672-9425	Fax:
e-Mail: Robbym@orpp.com	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) < 4	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

Project Name: KAIN FOR KENT
Project Location: Battleground
Project No:
Sampler (Print): Robby MERSIOVSKY
Sampler (Sign):
Sampler Remarks:

Remarks & Additional Analyses
Changes:
11 TCLP metals
Add TPH
Delete RCI
per Robby 7-31-07 10:00 RH

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI No	PAH	TOTAL EPA TCLP VOLATILES	SEMI-VOLS	RCRA METALS
	[2] Cntr. Type		P								
	Number		1								
	Volume		1 Liter								
	[3] Preservative		1								
182430	1) KAIN FOR KENT	7/27/07 945	O	C	X	X	X				X
	2)										
	3)										
	4)										
	5)										
	6)										
	7)										
	8)										
	9)										
	10)										

Relinquished By:	Company: Select Enviro.	Date/Time: 7/27/07 9:49A	Received By:	Company: 7/27/07 9:50
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

[1] 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 DCBMS

[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.

EPAHO103001009

2253 AS Commercial Concrete
2253

EPAHO103001010

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/13/2007**

Dear **Mike Peterson**

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 # 2253

Generator: TAS Commercial Concrete
Address: 20105 Krahn Rd
Spring, TX 77388

Waste Information

Name of Waste: Waste TPH contaminated soil
TCEQ Waste Code #: CESQ3191
Container Type:
Detailed Description of Process Generating Waste:
Soil contaminated with diesel from spill
Color: brown to black **Odor:** slight hydrocarbon **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.

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:	TAS Generets Commercial Concrete		
Address:	20105 Krahn Rd		
City, State, Zip:	Spring, TX 77388		
Contact:	Mike Peterson	Title:	Yard Manager
Phone No:	281-350-0832	Fax No:	281-350-6664
24/hr Phone:	281-615-6290		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:	TAS Commercial Concrete		
Address:	19319 Oil Center Blvd		
City, State, Zip:	Houston, TX 77073		
Contact:	Mike Peterson	Title:	Yard Manager
Phone No:	281-350-0832	Fax No:	281-350-6664

SECTION 3: General Description of the Waste

Name of Waste: Waste TPH Contaminated Soil
Detailed Description of Process Generating Waste: Soil contaminated with diesel from spill

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

Color: Brown to Black Odor: Slight Hydrocarbon

Specific Gravity (water=1): 1-1.5 Density: 9-10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 Other: ____
Texas State Waste Code No: CESQ3191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-Hazardous Waste TPH Contaminated Soil
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >160	pH NA	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 0-10% ~~99~~ 100
Oil&Grease >1500mg/l	TOC NAmg/l	Zinc NAmg/l	Copper NAmg/l	Nickel NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Soil/Rock	95-99	%
Diesel	1-5	%

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: Only TCLP Benzene
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:** 07/10/07

Printed Name/Title: Mike Peterson/ Yard Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: _____ Date: 7-12-07 Approved Rejected Approval Number: 2253	$45/dm $69/hr (4 Hr Min) FSC 20% IS

EPAHO103001013

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.

ENVIRON EXPRESS LABORATORIES, INC.

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

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 61371.01 1of 1

Customer: **TAS**
Project ID: **TAS**
Project Loc: **Krahn Rd., Spring, TX**
Charge/P.O.:

Sample ID: **#1 North (Sumps)**
Matrix: **Soil**
Type: **Grab**

Environ ID: **61371.01**
Sampled: **12-29-06**
Received: **01-02-07**
Reported: **01-04-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
BTEX								
Benzene	< 0.001	mg/kg	--	0.001	SW846.8021B	DMB	01-03-07	15:21
Toluene	< 0.001	mg/kg	--	0.001	SW846.8021B	DMB	01-03-07	15:21
Ethylbenzene	< 0.001	mg/kg	--	0.001	SW846.8021B	DMB	01-03-07	15:21
Xylenes	< 0.003	mg/kg	--	0.003	SW846.8021B	DMB	01-03-07	15:21
Total BTEX	< 0.006	mg/kg			SW846.8021B	DMB	01-03-07	15:21
TOT. PET. HYDROCARBON								
GRO (Gasoline Range)	< 50	mg/kg	--	50	TCEQ 1005.03	DB	01-03-06	2:14
DRO (Diesel Range)	1,310	mg/kg	--	50	TCEQ 1005.03	DB	01-03-06	2:14
ORO (Oil Range)	740	mg/kg	--	50	TCEQ 1005.03	DB	01-03-06	2:14
TOTAL TPH	2,050	mg/kg	--	50	TCEQ 1005.03	DB	01-03-06	2:14
METALS (RCRA) - Total								
Arsenic	< 0.2	mg/kg	--	0.2	SW846.6010B	JK	01-03-07	15:30
Barium	67.3	mg/kg	--	0.2	SW846.6010B	JK	01-03-07	15:30
Cadmium	< 0.2	mg/kg	--	0.2	SW846.6010B	JK	01-03-07	15:30
Chromium	5.8	mg/kg	--	0.6	SW846.6010B	JK	01-03-07	15:30
Lead	3.8	mg/kg	--	0.6	SW846.6010B	JK	01-03-07	15:30
Selenium	< 0.2	mg/kg	--	0.2	SW846.6010B	JK	01-03-07	15:30
Silver	0.2	mg/kg	--	0.2	SW846.6010B	JK	01-03-07	15:30
Mercury	< 0.03	mg/kg	--	0.03	SW846.7471A	MN	01-03-07	11:00

Definitions: REG - Regulatory Limit (User Should Confirm Lim TPH - Total petroleum Hydrocarbons
MQL - Method Quantitation Limit * Burn Time
PPM - Parts Per Million
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001016

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	Soil

ANALYST:	dmb	UNITS:	mg/kg	NO.SAMPLES:	16

SAMPLES:	61355-01	61364-02	61365-01	61366-01	61371-01	61371-02	61371-03	61371-04
	61375-01	61375-02	61375-03	61307-01	61380-01	61380-02	61380-03	61381-02

MATRIX 61371-02	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%)	
									REC-RANGE	RPD
BENZ	0	472	461	98	94	4	103	0	60 - 120	20
TOL	0	472	401	85	84	1	92	0	60 - 120	20
ETBZ	0	472	406	86	81	6	93	0	60 - 120	20
XYLS	0	1415	1076	76	76	1	85	0	60 - 120	20
MTBE	0	472	428	91	91	0	95	0	60 - 120	20

KEY:
BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)
MTBE - Methyl-tert-butyl ether
CCV - Continuing Calibration Verification
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent

John Keller 1/4/06
JOHN KELLER, Ph.D DATE
Lab.Dir./QA-QC Mgr.

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3

ANALYST:	dmb	MATRIX:	SOIL	UNITS:	mg/kg	SAMPLES:	7

SAMPLES:	61365-01	61366-01	61368-01	61371-01	61371-02	61371-03	61371-04

QC SAMPLE 61371-04	MB mg/kg	CCV REC	LCS REC	MS REC	MSD REC	MS-MSD RPD	QC LIMITS REC	QC LIMITS RPD
GRO RESULT	< 50	119.6%	93.6%	85.6%	86.8%	1.4%	75-125	20
DRO RESULT	< 50	110.4%	98.4%	88.4%	90.4%	2.2%	75-125	20

John Keller 1/3/07

JOHN KELLER, Ph.D, Lab.Dir./QA-QC Mgr. DATE

KEY:

TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
CCV - Continuing Calibration Verification
MB - Method Blank
LCS - Laboratory Control Sample
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative % Difference
REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	SOLID

ANALYST:	JK	DATE:	01.03.07	UNITS:	PPM (mg/kg)	NO.SAMPLES:	4

SAMPLES:	61371.01	61371.02	61371.03	61371.04				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS — BATCH ID: 61371.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4	89	94	5	88	0	75 - 125	20
Barium	0.00	5	4	88	91	3	95	0	75 - 125	20
Cadmium	0.00	5	4	87	92	5	100	0	75 - 125	20
Chromium	0.00	5	4	88	92	4	90	0	75 - 125	20
Lead	0.00	5	4	88	91	3	92	0	75 - 125	20
Selenium	0.00	5	4	89	94	6	92	0	75 - 125	20
Silver	0.00	5	4	88	89	0	104	0	75 - 125	20

John Keller

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX:	Solid

ANALYSTS:	MN	DATE:	01.03.07	UNITS:	mg/kg	NO.SAMPLES:	4

SAMPLES:	61371.01	61371.02	61371.03	61371.04				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.057	0.054	94	94	0	100	0	1	60 - 120	20

John Keller
JOHN KELLER, Ph.D
Laboratory Director

TAS commercial Concr~~2254~~
2254

EPAHO103001021

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/13/2007**

Dear **Mike Peterson**

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 # 2254

Generator: TAS Commercial Concrete
Address: 20105 Krahn Rd
Spring, TX 77388

Waste Information

Name of Waste: Waste concrete cure
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Unused concrete cure in 55 gallon drums
Color: white **Odor:** mild **pH:** 5-9
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.

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:	TAS ~~Concrete~~ Commercial Concrete		
Address:	20105 Krahn Rd		
City, State, Zip:	Spring, TX 77388		
Contact:	Mike Peterson	Title:	Yard Manager
Phone No:	281-350-0832	Fax No:	281-350-6664
24/hr Phone:	281-615-6290		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:	TAS Commercial Concrete		
Address:	19319 Oil Center Blvd		
City, State, Zip:	Houston, TX 77073		
Contact:	Mike Peterson	Title:	Yard Manager
Phone No:	281-350-0832	Fax No:	281-350-6664

SECTION 3: General Description of the Waste

Name of Waste: Waste Concrete Cure
Detailed Description of Process Generating Waste: Unused concrete cure in 55 gallon drums

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

Color: White **Odor:** Mild

Specific Gravity (water=1): .9-1.1 **Density:** 8-9 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: CESQ1191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-Hazardous Waste Concrete Cure
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	5-9	0mg/l	0mg/l	0-10%

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

EPAHQ103001023

SECTION 4: Physical and Chemical Data

COMPONENT/STABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Unused Concrete Cure	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.
MSDS

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:** 07/10/07

Printed Name/Title: Mike Peterson/ Yard Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: _____ Date: 7-12-07 Approved Rejected Approval Number: 2254	$65/dm $69/hr (4 Hr Min) FSC 20% IL

EPAHQ103001024

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.

EPAHO103001026

147

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/22/2003 Reviewed on 07/22/2003

1 Identification of substance

· **Product details**

· **Trade name: Shepler's Cure 309 Rez-All**

· **Article number: 83-306493**

· **Application of the substance / the preparation**

· **Manufacturer/Supplier:**
Shepler's
9103 E. Almeda Road
Houston, TX 77054
(713) 799-1150

· **Information department:** Environmental, Health, and Safety department.

2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

8052-41-3	Stoddard solvent	10.656%
61790-12-3	Distilled Tall Oil Fatty Acids	1.28%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard description:**
Toxic

· **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.
May cause cancer.
May cause sensitisation by skin contact.
Harmful: may cause lung damage if swallowed.

· **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *0
Fire = 0
Reactivity = 0

USA

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/22/2003 Reviewed on 07/22/2003

Trade name: Shepler's Cure 309 Rez-All

(Contd. of page 2)

· **Components with limit values that require monitoring at the workplace:**

8052-41-3 Stoddard solvent

PEL	2900 mg/m³, 500 ppm
REL	Short-term value: C 1800* mg/m³ Long-term value: 350 mg/m³ *15-min
TLV	525 mg/m³, 100 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests, no recommendation to the glove material can be given for the product.
Select the glove material upon consideration of the penetration times, rates of diffusion and the degradation.
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

· **Change in condition**
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C (212°F)

(Contd. on page 4)

EPAHO103001028

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/22/2003 Reviewed on 07/22/2003

Trade name: Shepler's Cure 309 Rez-All

(Contd. of page 4)

13 Disposal considerations

· Product:
· Recommendation: Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:
· Recommendation: Disposal must be made according to Federal, State, and Local regulations.
· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· DOT regulations:	
· Hazard class:	-
· Limited Quantity Exemption:	No Limited Quantity exemption applies for this shipping class.
· U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
· U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above.
· Land transport ADR/RID (cross-border):	
· ADR/RID class:	-
· Maritime transport IMDG:	
· IMDG Class:	-
· Marine pollutant:	No
· Air transport ICAO-TI and IATA-DGR:	
· ICAO/IATA Class:	-

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

107-15-3	ethylenediamine

· Section 313 (Specific toxic chemical listings):
This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to the State of California (Prop. 65) to cause cancer:

None of the ingredients is listed.

· Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:

None of the ingredients is listed.

(Contd. on page 6)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/22/2003 Reviewed on 07/22/2003

Trade name: Shepler's Cure 309 Rez-All

(Contd. of page 6)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Environmental, Health and Safety department
· Contact: Matthew Paquette

USA

Vetco Gray
#2255

2255

EPAHO103001031

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/13/2007**

Dear **Dustin Cambell**

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 # 2255

Generator: Vetco Gray
Address: 12221 N. Houston Rosslyn
Houston, TX 77086

Waste Information

Name of Waste: Out-of-date, unused adhesive product (Polyamide and epoxy re
TCEQ Waste Code #: 00096061
Container Type: 1 gal buckets on pallet
Detailed Description of Process Generating Waste:
Out of date unused adhesive product from operations for one time shipment.
Color: varies **Odor:** slight to none **pH:** neutral
Physical State:
Incompatibilities: strond acids, strong oxidizers
Safety Related Data/Special Handling:
standard

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:	Vetco Gray Inc		
Address:	12221 N. Houston Rosslyn Road		
City, State, Zip:	Houston, TX 77086		
Contact:	Dustin Campbell	**Title:**	HSE Coordinator
Phone No:	281-847-4644	**Fax No:**	281-405-5644
24/hr Phone:			
U.S. EPA I.D. No:	TXD060720505		
State I.D.	30299	**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: Out-of-date, Unused Adhesive Product (Polyamide and Epoxy Resin)
Detailed Description of Process Generating Waste: Out of Date Unused Adhesive Product From Operations. For one-time shipment.

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

Color: varies **Odor:** slight to none

Specific Gravity (water=1): 1.5 **Density:** 8.5-9 lbs/gal

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

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** ☒ **Other (explain)**
Container Size: ____ ____ ____ 1 gallon buckets on pallet

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 500-600 buckets total **Other:** ____
Texas State Waste Code No: 00096061
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >200	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease 0mg/l	**TOC** 0mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103001033

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Adhesive Part A 21919-6 (Epoxy Resin)	0-50	%
Adhesive Part B 21919-7 (Polyamide Resin)	0-50	%

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 acids, 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: 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:** 7-12-07

Printed Name/Title: Dustin Campbell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: _____ Date: 7-13-07 (Approved) Rejected Approval Number: 2255	$400.00/pallet DS

EPAHO103001034

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

EPAHO103001035

(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.

EPAHO103001036

CUMING CORPORATION

Boston, MA USA
Houston, TX USA
New Iberia, LA USA
Macae RJ, BRAZIL
Frankfurt, GERMANY

FLOTATION DIVISION • 225 BODWELL STREET • AVON, MA 02322 • (508) 580-2660 • FAX (508) 580-0960

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

Product Name:	Adhesive Part A-21919-6
General Chemical Description:	Epoxy resin
Manufacturer:	Cuming Corporation Flotation Division 225 Bodwell Street Avon, MA 02322
Telephone Number:	(508) 580-2660
Emergency Telephone Number:	(508) 580-2660
Date Prepared:	January 12, 2004

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% by Weight
Epoxy Resin	25068-38-6	>80
Hydrophobic Silica	067762-90-7	<10

The remaining components are trade secret.

SECTION 3 – HAZARDS IDENTIFICATION

Primary Route(s) of Entry:	Dermal
Chronic Effects:	Skin Sensitization (dermatitis)
Skin Absorption:	Not likely to be absorbed through skin
Eye:	Will cause eye irritation
Skin Contact:	Causes allergic skin reactions. May cause irritation.
Inhalation:	May cause an allergic reaction
Ingestion:	Will cause illness
HMIS Hazard Rating:	Health: 2 Flammability: 1 Reactivity: 0
Carcinogenicity:	Not listed as an IARC, OSHA or ACGIH potential carcinogen

SECTION 4 – FIRST AID

Eye Contact:	Flush with water immediately for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

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Skin Contact:	Wash with large amounts of running water, and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.
Inhalation:	Remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed, give at least 3-4 glasses of water but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

SECTION 5 – FIRE AND EXPLOSION DATA

Flash Point:	>200°C
Upper Explosion Limit (UEL):	N/A
Lower Explosion Limit (LEL):	N/A
Extinguishing media:	Carbon dioxide, foam, dry chemical, water spray.
Special Fire Fighting Procedures:	Use self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	Decomposition and combustion products may be toxic.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

SECTION 7 – HANDLING AND STORAGE

Precautions:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. Individuals should wash thoroughly after handling. Store in dry area in closed containers. For industrial use only.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:	Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.
Eye Protection:	Wear splash-proof chemical goggles.
Hand Protection:	Wear impervious gloves.
Respiratory Protection:	Organic chemical cartridge respirator, if needed.
Engineering Controls:	Good general mechanical ventilation and local exhaust

SECTION 9 – TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	viscous liquid
Color:	blue
Odor:	light
Vapor Pressure (mm Hg @ 180°C (356°F))	~1 mm Hg
Vapor Density (Air = 1):	Heavier than air
Boiling Point:	>200°C
Solubility in Water:	Insoluble
Specific Gravity (Water = 1):	1.20

SECTION 10 – STABILITY AND REACTIVITY

EPAHO103001038

Chemical Stability:
Stable

Incompatibility:
Strong oxidizing agents.

Hazardous Decomposition Products:
May include carbon dioxide, carbon monoxide, hydrocarbons, dense smoke, and water

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
Direct contact with open flame

SECTION 11 – TOXICOLOGICAL PROPERTIES

Acute Oral Toxicity (LD50, Rat):
>5000 mg/kg
Acute Dermal Toxicity (LD50, Rabbit):
>6000 mg/kg

Acute Inhalation Toxicity (LC50, Rat):
None specified

Irritation Effects Data:
Inhalation of dust resulting from machining may be irritating to eyes, nose and throat. Certain individuals may develop skin irritation upon direct contact.

SECTION 12 – ECOLOGICAL INFORMATION

Biodegradability®modified Sturn method): ~12%
Fish Toxicity:
Rainbow Trout(96 hrs): LC 50 1.5 mg/L

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal:
Material is classified as a non-hazardous waste under current RCRA regulations. Waste and scrap material should be collected and disposed of in accordance with all federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Department of Transportation: Not regulated.

SECTION 15 – REGULATORY INFORMATION

OSHA Status: This MSDS has been prepared in compliance with OSHA hazard Communication Standard 29 CFR 1910.1200.This product is considered to be hazardous chemical under that standard.

TSCA Inventory Status: Chemical components listed on TSCA Inventory.

TSCA 12b) Export Notification: This product contained chemical which is regulated by TSCA 12(b) Regulation and it is required that proper export notification shall be sent to EPA prior to shipping out of United States of America.

SARA Title III: Section 313 : not listed.

EPAHO103001039

SECTION 16 – OTHER INFORMATION

The information contained on this Material Safety Data Sheet (MSDS) represents current data and best estimation of the proper handling of this material under normal conditions. Handling of this material in a manner not in conformance with this MSDS or the Technical Data Sheet or in combination with any other material or process is the responsibility of the user.

EPAHO103001040

CUMING CORPORATION

Boston, MA USA
Houston, TX USA
New Iberia, LA USA
Macae RJ, BRAZIL
Frankfurt, GERMANY

FLOTATION DIVISION • 225 BODWELL STREET • AVON, MA 02322 • (508) 580-2660 • FAX (508) 580-0960

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

Product Name:	Adhesive Part B-21919-7
General Chemical Description:	Polyamide resin
Manufacturer:	Cuming Corporation Flotation Division 225 Bodwell Street Avon, MA 02322
Telephone Number:	(508) 580-2660
Emergency Telephone Number:	(508) 580-2660
Date Prepared:	January 12, 2004

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% by Weight
Polyamide Resin	Mixture	90-100
The remaining components are trade secret		

SECTION 3 – HAZARDS IDENTIFICATION

Primary Route(s) of Entry:	Dermal
Chronic Effects:	Skin Sensitization (dermatitis)
Skin Absorption:	Not likely to be absorbed through skin
Eye:	Will cause eye irritation
Skin Contact:	Causes allergic skin reactions. May cause irritation.
Inhalation:	May cause an allergic reaction
Ingestion:	Will cause illness
HMIS Hazard Rating:	Health: 3 Flammability: 1 Reactivity: 0
Carcinogenicity:	Not listed as an IARC, OSHA or ACGIH potential carcinogen

SECTION 4 – FIRST AID

Eye Contact:	Flush with water immediately for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.
Skin Contact:	Wash with large amounts of running water, and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention.

EPAHO103001041

	Discard or decontaminate clothing before re-use and destroy contaminated shoes.
Inhalation:	Remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed, give at least 3-4 glasses of water but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

SECTION 5 – FIRE AND EXPLOSION DATA

Flash Point:	>185°C
Upper Explosion Limit (UEL):	N/A
Lower Explosion Limit (LEL):	N/A
Extinguishing media:	Carbon dioxide, foam, dry chemical, water spray.
Special Fire Fighting Procedures:	Use self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	Decomposition and combustion products may be toxic.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

SECTION 7 – HANDLING AND STORAGE

Precautions:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. Individuals should wash thoroughly after handling. Store in dry area in closed containers. For industrial use only.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:	Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.
Eye Protection:	Wear splash-proof chemical goggles.
Hand Protection:	Wear impervious gloves.
Respiratory Protection:	Organic chemical cartridge respirator, if needed.
Engineering Controls:	Good general mechanical ventilation and local exhaust

SECTION 9 – TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	viscous liquid
Color:	amber
Odor:	ammonia like
Vapor Pressure (mm Hg @ 21°C (70°F))	not determined
Vapor Density (Air = 1):	heavier than air
Boiling Point:	not determined
Solubility in Water:	moderate
Specific Gravity (Water = 1):	1.02

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:
Stable

EPAHO103001042

Incompatibility:
Strong acids, oxidizer

Hazardous Decomposition Products:
Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
Direct contact with open flame

SECTION 11 – TOXICOLOGICAL PROPERTIES

Acute Oral Toxicity (LD50, Rat): >8 g/kg
Acute Inhalation Toxicity (LC50, Rat):
None specified

Irritation Effects Data:
Inhalation of dust resulting from machining may be irritating to eyes, nose and throat. Certain individuals may develop skin irritation upon direct contact.

SECTION 12 – ECOLOGICAL INFORMATION

No Data

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal:
Material is classified as a non-hazardous waste under current RCRA regulations. Waste and scrap material should be collected and disposed of in accordance with all federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Department of Transportation: Not regulated.

SECTION 15 – REGULATORY INFORMATION

OSHA Status: This MSDS has been prepared in compliance with OSHA hazard Communication Standard 29 CFR 1910.1200.This product is considered to be hazardous chemical under that standard.

TSCA Inventory Status: Chemical components listed on TSCA Inventory.

TSCA 12b) Export Notification: None

SARA Title III:
Section 311/312: Acute material.
Section 313 : not listed.

SECTION 16 – OTHER INFORMATION

The information contained on this Material Safety Data Sheet (MSDS) represents current data and best estimation of the proper handling of this material under normal conditions. Handling of this material in a manner not in conformance with this MSDS or the Technical Data Sheet or in combination with any other material or process is the responsibility of the user.

EPAHO103001043

2256
Duco, Inc (2256)

EPAHO103001044

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/13/2007**

Dear **Bill Martin**

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 # 2256

Generator: Duco, Inc.
Address: 16661 Jacinto Port Blvd
Houston, TX 77015

Waste Information

Name of Waste: Oil filters (drained)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
From equipment oil changes
Color: various **Odor:** oil like **pH:** 6-9
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:	DUCO Inc. Technip		
Address:	16661 Jacintoport Blvd.		
City, State, Zip:	Houston, TX 77015		
Contact:	Bill Martin	**Title:**	HSE Mgr.
Phone No:	281-249-2842	**Fax No:**	281-457-6794
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD000807966		
State I.D.	33041	**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: Oil Filters (Drained)
Detailed Description of Process Generating Waste: From equipment oil changes

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

Color: various **Odor:** oil like

Specific Gravity (water=1): 1.2-1.4 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

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

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

Flash Point >150	**pH** 6-9	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 98%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001046

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Metal Type Oil Filters	50-100	%
Paper element inserts	0-50	%
oil	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: N/A **Date:** 7-13-07

Printed Name/Title: No signature Required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbam Raynor Additional Information: 40cc/DM

Date: 7-13-07 Approved Rejected REC

Approval Number: 2256

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

EPAHO103001048

(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.

EPAHO103001049

2257 Bay Systems North America
<2257>

EPAHO103001050

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/18/2007**

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 # 2257

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

Waste Information

Name of Waste: Empty drums
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
RCRA empty drums from process
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

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: Bay Systems North America
Address: 2400 Spring Stuebner
City, State, Zip: Spring, TX 77383
Contact: John Orsburnevrn Title:
Phone No: Fax No:
24/hr Phone:
U.S. EPA I.D. No:
State I.D. SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: Baysystems North Amenca
Address: PO BOX 1509
City, State, Zip: Spring, TX 77383
Contact: John Orsburnevrn Title:
Phone No: Fax No:

SECTION 3: General Description of the Waste

Name of Waste: Empty Drums
Detailed Description of Process Generating Waste: RCRA Empty drums from process

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

Color: varies Odor: none

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

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 200 - 300 Other:
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non Regulated
Class: UN/NA: PG: RQ:

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	NA mg/l	NA mg/l	10 %

Oil&Grease	TOC	Zinc	Copper	Nickel
N/A mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103001052

SECTION 4: Physical and Chemical Data

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

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: NA - No Signature required **Date:** ____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: Barbara Thompson	Recycle
Date: 7-18-07 Approved Rejected	$10/drum
Approval Number: 2257	

EPAHO103001053

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

EPAHO103001054

(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.

2958
VETCO GRAY (2258)

CES Environmental Services, Inc.

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

Waste Pre-Acceptance/Approval Letter

Date **7/19/2007**

Dear **Brian Marcantel**

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 # 2258

Generator: Vetco Gray - Kilgore
Address: 4308 State Highway 42
Kilgore, TX 75662

Waste Information

Name of Waste: Oily rags, absorbents, and soil
TCEQ Waste Code #: 00083101
Container Type:
Detailed Description of Process Generating Waste:
Hydrocarbon contaminated soil, absorbents and other solids
Color: varies **Odor:** hydrocarbon **pH:** neutral
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

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:	Vetco Gray Inc		
Address:	4308 State Highway 42		
City, State, Zip:	Kilgore, TX 75662		
Contact:	Brian Marcantel	**Title:**	District Manager
Phone No:	903-984-2940	**Fax No:**	903-984-4090
24/hr Phone:			
U.S. EPA I.D. No:	TXR000040659		
State I.D.	86635	**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: Oily Rags, Absorbents & Soil
Detailed Description of Process Generating Waste: Hydrocarbon contaminated soil, absorbents and other solids.

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

Color: varies **Odor:** hydrocarbon

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

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☒	**Drum**	☐	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		80 gal					

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: 00083101
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease >1500mg/l	**TOC** >1000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001058

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dirt	75-85	%
Grease	0-5	%
Floor dry	0-5	%
Hydraulic oil	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.
Analytical 7060792

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: 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:** 7-16-07

Printed Name/Title: Dustin L. Campbell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: _____ Date: 7-19-07 Approved Rejected Approval Number: 2258	770.00/drum IS

EPAHO103001059

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

EPAHO103001060

(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.

EPAHO103001061

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#: 7060792

Client Sample ID: Contaminated Soil
Extended ID: Kilgore Plant

Project#: VETCO GRAY

Sample Collect Date: 6/26/2007 @ 12:15:00 PM
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

Sample Type: Comp

Test Group / Method

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	< 0.014	mg/L	7/2/2007 / 7:47 PM
Barium	0.0005	100	**2.44**	**mg/L**	7/2/2007 / 7:47 PM
Cadmium	0.002	1	**0.104**	**mg/L**	7/2/2007 / 7:47 PM
Chromium	0.002	5	**0.015**	**mg/L**	7/2/2007 / 7:47 PM
Lead	0.005	5	**0.066**	**mg/L**	7/2/2007 / 7:47 PM
Selenium	0.024	1	< 0.024	mg/L	7/2/2007 / 7:47 PM
Silver	0.002	5	< 0.002	mg/L	7/2/2007 / 7:47 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	6/28/2007 / 9:58 PM

BTEX Method: SW-846 8021B	MDL	Result	Units	Analyst: TFR Date / Time
Benzene	0.5	< 0.5	mg/kg	7/5/2007 / 11:24 PM
Toluene	0.5	**0.8**	**mg/kg**	7/5/2007 / 11:24 PM
Ethyl benzene	0.5	**4.3**	**mg/kg**	7/5/2007 / 11:24 PM
M+P-Xylene	0.5	**19.7**	**mg/kg**	7/5/2007 / 11:24 PM
o-Xylene	0.5	**10.7**	**mg/kg**	7/5/2007 / 11:24 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Friday, July 06, 2007
Date

EPAHO103001062

7060790 - 7060792

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

7060790

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	93.3
Toluene-d8	94.5
4-Bromofluorobenzene	108.4

7060791

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	94.8
Toluene-d8	95.5
4-Bromofluorobenzene	107.5

VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95.6	0.6
Trichloroethene	96.8	88.6	2.2	90.2	< 0.005	98.8	99.6	0.2
Tetrachloroethene	100.0	91.4	2.2	87.7	< 0.005	139.0	98.8	8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6

7060790

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	97.9
Phenol-d6	103.8
Nitrobenzene-d5	77.6
2-Fluorobiphenyl	74.1
2,4,6-Tribromophenol	66.3
p-Terphenyl-d14	82.0

7060791

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	82.8
Phenol-d6	103.5
Nitrobenzene-d5	89.2
2-Fluorobiphenyl	79.5
2,4,6-Tribromophenol	55.3
p-Terphenyl-d14	52.3

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Page 2

QA/QC REPORT CONTINUED

SEMI-VOLATILES	MS %REC	MSD %REC	CCV %REC	MB mg/L	LCS %REC	LCSD %REC
Pyridine	40.5	49.8	84.1	< 0.05	34.4	49.6
1,4-Dichlorobenzene	38.2	45.8	113.3	< 0.05	56.2	46.6
o-Cresol	34.3	40.5	110.0	< 0.05	57.8	53.8
m+p Cresol	35.3	37.6	117.4	< 0.05	54.2	45
Hexachloroethane	52.3	39.1	115.7	< 0.05	49.6	49.1
Nitrobenzene	33.1	53.8	106.2	< 0.05	42.5	51.4
Hexachloro-1,3-butadiene	34.9	36.3	101.4	< 0.05	51	65.2
2,4,6-Trichlorophenol	39.2	40.4	101.9	< 0.05	41.8	65.6
2,4,5-Trichlorophenol	36.6	36.9	96.3	< 0.05	37.9	59.6
2,4-Dinitrotoluene	29.6	29.6	95.3	< 0.05	28.7	57.2
Hexachlorobenzene	47.6	46.6	112.6	< 0.05	54.4	46.4
Pentachlorophenol	29.1	24	65.4	< 0.5	47	41.1

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06

ANALYTE	STD
Flashpoint	82°F

ANALYTE	BUFFER 7.0	ORIG	DUP	RPD
pH	7.0	12.16	12.19	0.25

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD
Reactivity as Hydrogen Sulfide	1.73	1.70	1.75

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide	< 0.25	< 0.25	0.00	101

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Page 3

QA/QC REPORT CONTINUED

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	91.5	101.5	95.1
C12-C28		< 8	95.0	107.9	100.4

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	STD %REC
Benzene		< 0.005	90.8	91.0	0.22	89.6
Toluene		< 0.005	100.0	101.0	1.00	98.9
Ethylbenzene		< 0.005	99.8	104.0	4.12	99.7
m+p Xylene		< 0.005	102.0	112.0	9.35	110.3
o-Xylene		< 0.005	97.3	108.0	10.42	103.2

SURROGATE SPIKE RECOVERY FOR BTEX	% REC
4-Bromofluorobenzene	95.6

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit
MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature: _____
Holland D. Gilmore / Laboratory Director

July 6, 2007

MES · CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2

YOUR PROJECT NO.: Veteo Gray
YOUR P.O. #:
YOUR PROJECT NAME: Kilgore Plant
PROJECT ADDRESS:

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Vol	TCLP Semi-Vol	TCLP 11 metals	TCLP 8 metals	TPH	RCI	BTEX	NUMBER OF CONTAINERS	PRESERVATIONS	REMARKS
Paint Booth Filters	Comp	6/26	1215p		X	X	X		X					
Washbay Sludge	Comp	6/26	1215p		X	X		X	X	X				
Contaminated Soil	Comp	6/26	1215p					X			X			

4 PARAMETERS FOR ANALYSIS

5 REMARKS
TURNAROUND TIME

DETECTION LIMITS
SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

on ice 12°

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter DATE 6/27 TIME 330p RECEIVED BY: (Signature) Janette Buck

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) Janette Buck DATE 6/27/01 TIME 15:30

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