

The logo for PermaFix environmental services features the word "PermaFix" in a bold, sans-serif font. "Perma" is in grey and "Fix" is in black. Below "PermaFix" is the phrase "environmental services" in a smaller, black, sans-serif font. To the right of the text is a blue graphic consisting of three concentric, slightly offset circles, with a blue line extending from the top of the innermost circle towards the "Fix" text. A red swoosh is positioned above the "Perma" text, curving from the left towards the "Fix" text.

PermaFix[®]
environmental services

1940 NW 67th Place

Gainesville, FL 32653

Report to FDEP Relating to Implementation of the Contingency Plan on January 5, 2017

Perma-Fix of Florida Facility

**Operating Permit Number: 17680-011-HO
FLD980711071**

Prepared by

**Kurt Fogleman
Environmental Health and Safety Manager
Perma-Fix Southeast Region
1940 NW 67th Place
Gainesville, FL 32653
(352) 395-1356**

In accordance with condition I.12 of Operating Permit Number 17680-011-HO, Perma-Fix of Florida is providing the following information related to the implementation of the facility contingency plan on January 5, 2017.

I.12.b.(1)(a) Name, Address, I.D. number, Contact Information for the Facility and its Owner or Operator

Perma-Fix of Florida, Inc., is a wholly-owned subsidiary of and operated by Perma-Fix Environmental Services, Inc.

The Perma-Fix of Florida, Inc. facility is located at:
1940 NW 67th Place
Gainesville, FL 32653-1649

The facility EPA ID number is FLD980711071. The facility phone number is (352) 373-6066. E-mail correspondence can be directed to Kurt Fogleman, Environmental Health and Safety Manager, at kfogleman@perma-fix.com

I.12.b.(1)(b) Date, Time, and Type of Incident

The incident began at approximately 5:55 a.m. on 1/5/2017. Technicians were bulking hazardous waste solids into a roll-off box in preparation for transportation later in the day. Materials in the roll-off box spontaneously ignited and began to burn. Technicians exhausted available extinguishers in the attempt to fight the fire. The Gainesville Fire and Rescue (GFR) department was summoned at approximately 6:00 a.m.

I.12.b.(1)(c) Identity and Quantity of Materials Involved

The materials involved in the fire were hazardous waste solids, which are typically debris contaminated with hazardous waste or other solid materials. Approximately 10 cubic yards of hazardous waste solids had been added to the box by the time of the fire.

Attachment A includes the drum process logs, inbound manifests and waste profiles associated with the materials that were bulked in the roll-off. This material is normally shipped offsite to a hazardous waste landfill as UN3077 Environmentally Hazardous Substances, Solid, N.O.S.

In addition to the materials received from other generators, there was glass and plastic from the Perma-Fix liquid scintillation vial (LSV) crushing process. This glass and plastic results from the processing of exempt LSV waste. Material received from offsite generators included air-phase dry carbon from a vapor recovery remediation system which had been contaminated with tetrachloroethylene, and acetone solids from boat manufacturing and repair.

I.12.b.(1)(d) Extent of Injuries

There were no injuries as a result of this incident.

I.12.b.(1)(e) Assessment of Actual or Potential Hazards

There was an immediate danger of fire that was quickly suppressed by the fire department. Due to the volume of water used to suppress the fire, there was a potential for release of contaminated material from the adjacent stormwater outfall #3. Samples of water released from outfall #3 were collected and observed for indicators of pollution prior to submitting samples to the Perma-Fix Analytical Services Laboratory.

Based on the absence of any indicators of pollution (color, clarity, floating/suspended solids, sheen or foam) Perma-Fix made an initial determination that no hazardous materials had been released to the environment. Partial screening results for RCRA metals and volatile organic compounds obtained later in the day supported this determination.

Attachment B includes laboratory results for RCRA metals, volatile organic compounds and semi-volatile organic compounds. Samples collected from the outfall #3 pipe (designated Outfall #3) and from soil beneath the outfall pipe (designated Lower Outfall) did not show the presence of RCRA metals or volatile organic compounds.

Acetophenone and dimethyl phthalate were detected in the Lower Outfall sample above the detection limit but below the practical quantitation limit (PQL). Bis(2-ethyl-hexyl) phthalate was detected in the Outfall #3 sample. While these constituents are present in a sample taken from containerized firefighting water (designated Tote) the samples from the outfall did not exhibit concentrations indicating release of pollution. Semi-volatile compounds known to be present in the tote sample were not detected in the outfall samples.

All material resulting from the fire and from suppression activities was quickly pumped and containerized, including the small amount of liquid that passed through the outfall. Any potential hazard was eliminated through quick response actions. Perma-Fix does wish to note that a fire investigator dispatched by GFR attempted to prevent facility personnel from taking steps to mitigate potential release of materials from the site. The investigator directed facility personnel to secure the incident scene during her investigation. Facility personnel discussed the issue with the investigator and with Alachua County Environmental Protection Department (ACEPD) representatives. The ACEPD personnel were able to impress upon the investigator the need to expedite cleanup activities. The actions of the investigator were taken subsequent to the departure of the GFR Incident Commander, and were not in accordance with incident command principles designed to provide a balanced approach to emergency response. Further delay in response would have increased the risk of release to the environment.

I.12.b.(1) (f) Estimated Quantity and Disposition of Recovered Materials

Liquid from the emergency response was containerized in 28 tote-tanks (approximately 250 gallons per tote). Liquid was pumped from the roll-off and from the outfall containment area. This will be characterized and shipped for disposal as hazardous waste. Remaining solids from the roll-off and spill control materials were containerized in 30 drums, and will be shipped off site as previously profiled.

I.12.b.(2)(a) Description and Cause of Noncompliance

Materials were appropriately profiled and handled at the facility, so there is no instance of noncompliance in this case. There is no anticipated reaction between acetone and tetrachloroethylene, the major components of each waste stream. At this time it is suspected that the cause of the fire was acetone solids that potentially gave off a vapor that stayed low in the roll-off due to atmospheric conditions. Perma-Fix uses non-sparking tools to process waste, so the ignition source is unknown.

I.12.b.(2)(b) Steps to Reduce, Eliminate and Prevent Recurrence

Processing activities were immediately halted for the duration emergency response activities and cleanup. Remaining wastes from the two waste streams that were consolidated were left as packaged for arrival at the facility. These two waste streams will not be comingled as part of permitted processing activities. Remaining wastes from these waste streams have been observed to determine if additional risks are present.

Attachments

Attachment A: Materials Involved in Incident

Attachment B: Analytical Results

Attachment A

Materials Involved in Incident

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator ID Number GAR000014803		2 Page 1 of 1		3 Emergency Response Phone 800-365-6066		4. Manifest Tracking Number 010628311 JJK			
5. Generator's Name and Mailing Address CINTAS CORPORATION 27 WHITNEY DRIVE MILFORD, OH 45150 Generator's Phone: 513-965-4964						Generator's Site Address (if different than mailing address) CINTAS CORPORATION 1156 UNIFORM ROAD GRIFFIN, GA 30224					
6. Transporter 1 Company Name ROBBIE D. WOOD INC.				205-744-8440		U.S. EPA ID Number ALD067138891					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address PERMA FIX OF FLORIDA, INC. 1940 N.W. 67TH PLACE GAINESVILLE, FL 32653 Facility's Phone: 800-365-6066						U.S. EPA ID Number FLD980711071					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes					
		No.	Type								
X	HA3077, RQ, Hazardous waste solid, n.o.s. (Perchloroethylene, Carbon), 9, PGIII Profile 61414 ()	002	BA	1300	P	0039					
14. Special Handling Instructions and Additional Information 9a 1: 61414 D 70 W409 HM1 9a 2: 9a 3: 9a 4: SO #: 78148016 Doc #: DV167436 Ref#: Notes (if Any): 1. ERG 171 AIR-PHASE DRY CARBON BILL TO: AECOM, INC 2. ERG 5925 REDA CARNEGIE BLVD. SUITE 370 3. ERG CHARLOTTE, NC. 28209 4. ERG											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name Daniel Hunt as agent of Cintas						Signature <i>[Signature]</i>			Month Day Year 11 10 16		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Charles Callow						Signature <i>[Signature]</i>			Month Day Year 11 10 16		
Transporter 2 Printed/Typed Name						Signature			Month Day Year		
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
Manifest Reference Number: _____											
18b. Alternate Facility (or Generator)						U.S. EPA ID Number					
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator)						Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. 1008 HM1		2.		3.		4.					
20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Tom McBeth						Signature <i>[Signature]</i>			Month Day Year 11 14 16		

**PERMA-FIX ENVIRONMENTAL SERVICES
WASTE CODE INFORMATION**

Please list all D,F,K,P, U and WA State codes that this waste carries. WA state codes for PFNW only.

EPA Hazardous Waste Codes				
D039				

ADDITIONAL CHEMICAL CONSTITUENT DISCLOSURE

List any known chemical components that are not reported elsewhere in the profile.

Attach additional sheets if necessary.

(Constituents should add up to 100%)

Chemical Constituents	Concentration	(Units)
Granular Activated Carbon	99-100%	%
TCLP Tetrachloroethylene	1.9	mg/l

Chemical Constituents	Concentration	(Units)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-129696-1
Client Project/Site: Cintas - Griffin

For:
AECOM, Inc.
One Midtown Plaza
1360 Peachtree Street, NE
Suite 500
Atlanta, Georgia 30309

Attn: Jing Zhou



Authorized for release by:
9/20/2016 1:36:32 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

LINKS

Review your project results through
TotalAccess

Have a Question?

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

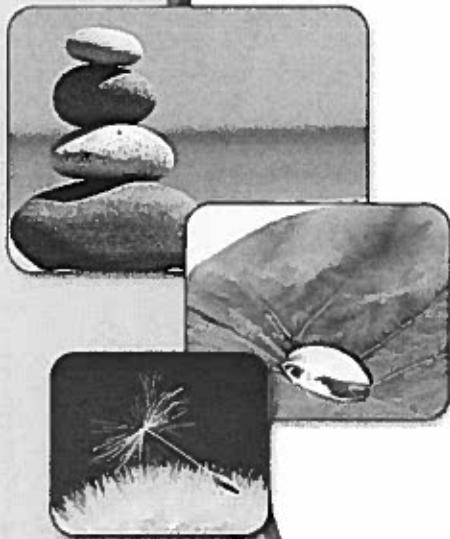




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Case Narrative

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

Job ID: 680-129696-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: AECOM, Inc.

Project: Cintas - Griffin

Report Number: 680-129696-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/10/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.7 C.

TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample Carbon-090916 (680-129696-1) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 09/13/2016 and analyzed on 09/15/2016.

Sample Carbon-090916 (680-129696-1)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 680-449441 and analytical batch 680-449685.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample Carbon-090916 (680-129696-1) was analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW846 Methods 1311 / 8270D. The samples were leached on 09/12/2016, prepared on 09/13/2016 and analyzed on 09/15/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

IGNITABILITY FOR SOLIDS

Sample Carbon-090916 (680-129696-1) was analyzed for ignitability for solids in accordance with EPA SW-846 Method 1030. The samples were analyzed on 09/19/2016.

The following sample did not ignite: Carbon-090916 (680-129696-1); therefore, an ignitability value could not be obtained. The result has been reported as "No Burn" (NB).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
680-129696-1	Carbon-090916	Solid	09/09/16 11:15	09/10/16 10:42

- 1
- 2
- 3
- 4**
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
1030	Ignitability, Solids	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Definitions/Glossary

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

Client Sample ID: Carbon-090916

Lab Sample ID: 680-129696-1

Analyte	Result	Qualifier	NONE	NONE	Unit	DII Fac	D	Method	Prep Type
Ignitability	nb				mm/sec	1		1030	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Tetrachloroethene	1.9		0.020	0.015	mg/L	20		8260B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample Results

Client: AECOM, Inc.
Project/Site: Cintas - Griffin

TestAmerica Job ID: 680-129696-1

Client Sample ID: Carbon-090916

Lab Sample ID: 680-129696-1

Date Collected: 09/09/16 11:15

Matrix: Solid

Date Received: 09/10/16 10:42

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.020	U	0.020	0.0086	mg/L			09/15/16 09:31	20
2-Butanone	0.20	U	0.20	0.068	mg/L			09/15/16 09:31	20
Carbon tetrachloride	0.020	U	0.020	0.0066	mg/L			09/15/16 09:31	20
Chlorobenzene	0.020	U	0.020	0.0052	mg/L			09/15/16 09:31	20
Chloroform	0.020	U	0.020	0.010	mg/L			09/15/16 09:31	20
1,2-Dichloroethane	0.020	U	0.020	0.010	mg/L			09/15/16 09:31	20
1,1-Dichloroethene	0.020	U	0.020	0.0072	mg/L			09/15/16 09:31	20
Tetrachloroethene	1.9		0.020	0.015	mg/L			09/15/16 09:31	20
Trichloroethene	0.020	U	0.020	0.0096	mg/L			09/15/16 09:31	20
Vinyl chloride	0.020	U	0.020	0.010	mg/L			09/15/16 09:31	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120					09/15/16 09:31	20
1,2-Dichloroethane-d4 (Surr)	99		73 - 131					09/15/16 09:31	20
Dibromofluoromethane (Surr)	103		80 - 122					09/15/16 09:31	20
4-Bromofluorobenzene (Surr)	85		80 - 120					09/15/16 09:31	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.049	U	0.049	0.0059	mg/L		09/13/16 14:18	09/15/16 21:34	1
Hexachlorobenzene	0.049	U	0.049	0.0039	mg/L		09/13/16 14:18	09/15/16 21:34	1
Hexachlorobutadiene	0.049	U	0.049	0.0030	mg/L		09/13/16 14:18	09/15/16 21:34	1
Hexachloroethane	0.049	U	0.049	0.0037	mg/L		09/13/16 14:18	09/15/16 21:34	1
2-Methylphenol	0.049	U	0.049	0.0044	mg/L		09/13/16 14:18	09/15/16 21:34	1
3 & 4 Methylphenol	0.049	U	0.049	0.0064	mg/L		09/13/16 14:18	09/15/16 21:34	1
Nitrobenzene	0.049	U	0.049	0.0036	mg/L		09/13/16 14:18	09/15/16 21:34	1
Pentachlorophenol	0.24	U	0.24	0.0098	mg/L		09/13/16 14:18	09/15/16 21:34	1
Pyridine	0.24	U	0.24	0.012	mg/L		09/13/16 14:18	09/15/16 21:34	1
2,4,5-Trichlorophenol	0.049	U	0.049	0.0059	mg/L		09/13/16 14:18	09/15/16 21:34	1
2,4,6-Trichlorophenol	0.049	U	0.049	0.0042	mg/L		09/13/16 14:18	09/15/16 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		38 - 130				09/13/16 14:18	09/15/16 21:34	1
2-Fluorophenol (Surr)	67		25 - 130				09/13/16 14:18	09/15/16 21:34	1
Nitrobenzene-d5 (Surr)	71		39 - 130				09/13/16 14:18	09/15/16 21:34	1
Phenol-d5 (Surr)	75		25 - 130				09/13/16 14:18	09/15/16 21:34	1
Terphenyl-d14 (Surr)	93		10 - 143				09/13/16 14:18	09/15/16 21:34	1
2,4,6-Tribromophenol (Surr)	80		31 - 141				09/13/16 14:18	09/15/16 21:34	1

General Chemistry									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Ignitability	nb				mm/sec			09/19/16 11:02	1



Subcontractor's Name: Perma-Fix of Florida
 AECOM Project Number: 60138540.05
 AECOM Project Name: Cintas Griffin
 Purchase Order No.: 81884ACM

13. Project Managers The respective project managers of the parties shall be and are to be included in any Notice under Article 19 of the Agreement as it relates to this Purchase Order.

AECOM:

Name	Tom Marr
Phone Number	704.499.8014
Email Address	Thomas.Marr@aecom.com

SUBCONTRACTOR:

Name	Glenn S. Byer
Phone Number	813.368.8217
Email Address	gbyer@perma-fix.com

AECOM

Subcontractor: Perma-Fix of Florida

Tashauna Castle
 Signature

Glenn S. Byer
 Signature

Tashauna Castle
 Printed Name

Glenn S. Byer
 Printed Name

Non-Federal Subcontracts &
 Printed Title Procurement Administrator

SE Regional Industrial Sales Executive
 Printed Title

Address
 400 Northpark Town Center, Suite 900
 1000 Abernathy Road NE, Atlanta, Georgia 30328

Address
 1940 NW 67th Place
 Gainesville, FL 32653

(end of page)

Hazardous Waste Drum Log

Perma-Fix of Florida, Inc.

Shipment Number: PFG-757-H		Generator: Chaparral Boats		PAS-		Storage Zone Z		Sample Date 11/14/16		
Control Number: 52206		Drum Type BSO		RCRA Waste Codes: D001, F003				Sampler Initial 		
								Storage Date 11/14/16		
Q#	Process Code	Qty. (Gal) "M" - Metal "P" - Poly	Comments	Process Date		Residuals Container ID Number	Residuals Outbound Number	Outbound Manifest Number	Drum Completed	LAB USE
				In	Out					
1	HS	55	Solids							
2										
3										H ₂ O (PQL = 3.02%)
4										
5										TX (PQL = 100 ppm)
6										
7										pH:
8										
10										Other:
11										

Additional Comments: (use back if necessary)

Processing Personnel:

Log Verified By:

- FB - Fluorescent Lamps/Devices
- HH - Household Hazardous Waste
- NW - Non-RCRA Wastewater
- NS - Non-RCRA Solids
- OF - Used Oil Filters

- B - Fuel Blend
- BH - Fuel with High Halogens
- BS - Fuel Blend with Sludge
- BSO - High Solid Fuel Blend
- BW - Fuel with High Water
- PS - Phase Separation
- TS - Tranship

- HF - Haz Fuel
- HS - Haz Solids
- HW - Haz Water
- LSV - LSV
- LP - Lab Pack
- NRM - Non-RCRA Material
- NW - Non-RCRA Wastewater
- S - Other HW for Storage

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD004149951	2. Page 1 of 1	3. Emergency Response Phone 800-365-6066	4. Manifest Tracking Number 010628313 JJK		
5. Generator's Name and Mailing Address CHAPARRAL BOATS P.O. DRAWER 928 NASHVILLE, GA 31639			Generator's Site Address (if different than mailing address) CHAPARRAL BOATS 300 INDUSTRIAL PARK BLVD NASHVILLE, GA 31639				
Generator's Phone: 229-686-7481							
6. Transporter 1 Company Name ROBBIE D. WOOD INC			205-744-8440		U.S. EPA ID Number ALD067138891		
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address PERMA FIX OF FLORIDA, INC. 1940 N.W. 67TH PLACE GAINESVILLE, FL 32653			U.S. EPA ID Number FLD980711071				
Facility's Phone: 800-365-6066							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	UN 1993, Waste Flammable liquids, n.o.s. (ACETONE, POLYSTYRENE RESIN), 3, PGI	16	DM	880	G	D001	F003
	Profile 52206						
X	UN 1993, Waste Flammable liquids, n.o.s. (ACETONE, HEPTANE), 3, PGI	04	DM	220	G	D001	F003
14. Special Handling Instructions and Additional Information							
9a. 1. 52206		1. ERG 128		LIQUID ACETONE STILL BOTTOMS			
9a. 2. 53703		2. ERG 128		FLAMMABLE ADHESIVE			
9a. 3		3. ERG		Chaparral Boats			
9a. 4		4. ERG		P.O. Drawer 928			
SO #: 78148057 Doc #: DV167478 Ref #: CHA481		Notes (If Any):		Nashville, Ga 31639			
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name JOHN W. BROOKS			Signature <i>John W. Brooks</i>		Month Day Year 11 11 16		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Charles Calvey			Signature <i>Charles Calvey</i>		Month Day Year 11 11 16		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H001 H141		2. H001 H141		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Tom McPartt			Signature <i>Tom McPartt</i>		Month Day Year 11 14 16		

**PERMA-FIX ENVIRONMENTAL SERVICES
WASTE CODE INFORMATION**

Please list all D,F,K,P, U and WA State codes that this waste carries. WA state codes for PFNW only.

EPA Hazardous Waste Codes				
D001				
F003				

ADDITIONAL CHEMICAL CONSTITUENT DISCLOSURE

List any known chemical components that are not reported elsewhere in the profile.

Attach additional sheets if necessary.
(Constituents should add up to 100%)

Chemical Constituents	Concentration	(Units)
Acetone	40-60%	%
Polystyrene Resins	40-60%	%

Chemical Constituents	Concentration	(Units)

Attachment B
Analytical Results

Non-RAD
 RAD
 Special Precaution (Describe):

Initial
 In Process
 Final

Routine
 Rush
 ASAP!

Priority:

No:

Perma-Fix Chain of Custody Record and Analysis Request

Page 1 of 1

PAS Laboratory Sample ID No. (Lab fills in)	Project Name Project No.	Sample ID No.	Date	Matrix ¹	Preserv ²	Containers		Volatiles	Semivolatiles	Metals	GC-FID	%H2O	pH	TOC	Remarks (Continue on back if needed)
						No.	Type ³								
10576	SPILL RESPONSE OUTFALL #3		1/5/2017	Aq Liq	N/A	1	P	✓	✓	✓					TOTALS
10577	LOWER OUTFALL		1/5/2017	Aq Liq	N/A	1	P	✓	✓	✓					TOTALS
10578	TOTE		1/5/2017	SLUDGE	N/A	1	P	✓	✓	✓					TCLP

Relinquished by: *Kurt Fegleman* Date/Time: 1/5/2017 / 10:04
 Received by: *Van Tu*
 Relinquished by: _____ Date/Time: _____
 Received by: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____

Delivery Method: In person Common Carrier Lab courier Other _____ (Specify)

¹ Matrix: Aq Liq, Org Liq, Solid, Sludge
² Preservative: Blank = Unpreserved, A = HNO₃ to pH < 2; B = NaOH to pH > 12; C = cool to 4° C; O = Other (specify)
³ Type: P = Plastic; G = Glass

REPORT OF GCMS 'VOLATILES' ANALYSIS

PAS Number : 10576
 Chain of Custody : N/A
 Project # : Spill Response
 Sample ID : OUTFALL #3
 Sample Matrix : Aqueous Liquid

Date Analyzed : 1/5/2017
 PAS SOP : 4000-016
 Analyst : VTT

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>Limit</u>	<u>PQL</u> <u>LIMIT</u>	<u>UTS WW</u> <u>LIMIT</u>	<u>UTS NWW</u> <u>LIMIT</u>
Dichlorodifluoromethane	<MDL	mg/L	0.482	2.50	0.230	7.20
Chloromethane	<MDL	mg/L	0.590	2.50	0.190	30.0
Vinyl Chloride	<MDL	mg/L	0.331	2.50	0.270	6.00
Bromomethane	<MDL	mg/L	0.403	2.50	0.110	15.0
Chloroethane	<MDL	mg/L	0.369	2.50	0.270	6.00
Trichlorofluoromethane	<MDL	mg/L	0.274	2.50	0.020	30.0
1,1-Dichloroethene	<MDL	mg/L	0.316	2.50	0.025	6.00
Methylene Chloride	<MDL	mg/L	0.171	2.50	0.089	30.0
Trans-1,2 -Dichloroethene	<MDL	mg/L	0.261	2.50	0.054	30.0
1,1 -Dichloroethane	<MDL	mg/L	0.235	2.50	0.059	6.00
Trichloromethane (Chloroform)	<MDL	mg/L	0.254	2.50	0.046	6.00
1,1,1 -Trichloroethane	<MDL	mg/L	0.189	2.50	0.054	6.00
Tetrachloromethane (Carbon Tet.)	<MDL	mg/L	0.271	2.50	0.057	6.00
Benzene	<MDL	mg/L	0.229	2.50	0.140	10.0
1,2 -Dichloroethane	<MDL	mg/L	0.204	2.50	0.210	6.00
Trichloroethene	<MDL	mg/L	0.642	2.58	0.054	6.00
1,2 -Dichloropropane	<MDL	mg/L	0.286	2.50	0.850	18.0
Bromodichloromethane	<MDL	mg/L	0.186	2.50	0.350	15.0
Dibromomethane	<MDL	mg/L	0.173	2.50	0.110	15.0
cis- 1,3 - Dichloropropene	<MDL	mg/L	0.194	2.50	0.036	18.0
Methylbenzene (Toluene)	<MDL	mg/L	0.303	2.50	0.080	10.0
Trans -1,3 -Dichloropropene	<MDL	mg/L	0.235	2.50	0.036	18.0
1,1,2- Trichloroethane	<MDL	mg/L	0.245	2.50	0.054	6.00
Tetrachloroethene (Perc)	<MDL	mg/L	0.237	2.50	0.056	6.00
Dibromochloromethane	<MDL	mg/L	0.237	2.50	0.057	15.0
1,2 -Dibromoethane	<MDL	mg/L	0.362	2.50	0.028	15.0
Chlorobenzene	<MDL	mg/L	0.347	2.50	0.057	6.00
1,1,1,2 -Tetrachloroethane	<MDL	mg/L	0.314	2.50	0.057	6.00
Ethylbenzene	<MDL	mg/L	0.323	2.50	0.057	10.0
m & p Xylenes	<MDL	mg/L	0.578	2.50	0.213	20.0
o - Xylenes	<MDL	mg/L	0.300	2.50	0.107	10.0
Tribromomethane (Bromoform)	<MDL	mg/L	0.144	2.50	0.630	15.0
1,1,2,2 - Tetrachloroethane	<MDL	mg/L	0.255	2.50	0.057	6.00
1,2,3 -Trichloropropane	<MDL	mg/L	0.264	2.50	0.850	30.0

NOTES :

- *REG. LIMITS are for LDR Volatiles in Waste Water Matrices.
- Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
- Results Reported as N/A were not analyzed for.
- Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.
- Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
- Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
- The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by 

1/9/17
 Date



PERMA-FIX ANALYTICAL SERVICES

1940 N.W. 67th Place
 Gainesville, Fl. 32653
 (352) 373-6066 Fax: (352) 338-7922

REPORT OF GCMS 'SEMI-VOLATILES' ANALYSIS

PAS Number : 10576
 Project# : Spill Response
 Sample ID : Outfall #3
 Sample Matrix : Water

Chain of Custody : N/A
 Date Analyzed : 01/06/17
 PAS SOP : 4000-006
 Analyst : KEJ

**The reported value is an estimate. It failed to meet the established quality control criteria for either precision (duplicate) or accuracy (spike).

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	REPORT LIMIT	LDR WW LIMIT	LDR NWW LIMIT
N-Nitrosodimethylamine	62-75-9	<MDL	mg/L	0.021	0.200	0.810	2.3
Pyridine	110-86-1	<MDL	mg/L	0.021	0.200	0.039	16
Aniline	62-53-3	<MDL	mg/L	0.014	0.200	0.810	14
Phenol	108-95-2	<MDL	mg/L	0.019	0.200	0.039	6.2
2-Chlorophenol	95-57-8	<MDL	mg/L	0.019	0.200	0.044	5.7
Bis(2-chloroethyl) ether	111-44-4	<MDL	mg/L	0.017	0.200	0.033	6
1,3-Dichlorobenzene	541-73-1	<MDL	mg/L	0.019	0.200	0.036	6
1,4-Dichlorobenzene	106-46-7	<MDL	mg/L	0.021	0.200	0.090	6
1,2-Dichlorobenzene	95-50-1	<MDL	mg/L	0.013	0.200	0.088	6
2-Methylphenol	95-48-7	<MDL	mg/L	0.014	0.200	0.110	5.6
Bis(2-chloroisopropyl) ether	39638-32-9	<MDL	mg/L	0.019	0.200	0.110	7.2
Acetophenone	98-86-2	<MDL	mg/L	0.023	0.200	0.010	9.7
4-Methylphenol / 3-Methylpheno	108-44-5 / 108-36	<MDL	mg/L	0.028	0.200	0.770	5.6
N-nitroso-di-n-propylamine	621-64-7	<MDL	mg/L	0.030	0.200	0.400	14
Hexachloroethane	67-72-1	<MDL	mg/L	0.027	0.200	0.055	30
Nitrobenzene	98-95-3	<MDL	mg/L	0.025	0.200	0.068	14
2-Nitrophenol	88-75-5	<MDL	mg/L	0.040	0.200	0.028	13
2,4-Dimethylphenol	105-67-9	<MDL	mg/L	0.016	0.200	0.036	14
bis (2-chloroethoxy) methane	111-91-1	<MDL	mg/L	0.023	0.200	0.036	7.2
2,4-Dichlorophenol	120-83-2	<MDL	mg/L	0.026	0.200	0.044	14
1,2,4-Trichlorobenzene	120-82-1	<MDL	mg/L	0.019	0.200	0.055	19
Naphthalene	91-20-3	<MDL	mg/L	0.024	0.200	0.059	5.6
4-Chloroaniline (p-Chloroaniline)	106-47-8	<MDL	mg/L	0.037	0.200	0.460	16
2,6-Dichlorophenol	87-65-0	<MDL	mg/L	0.017	0.200	0.044	14
Hexachloropropene	1888-71-7	<MDL	mg/L	0.029	0.200	0.035	30
Hexachloro-1,3-butadiene	87-68-3	<MDL	mg/L	0.024	0.200	0.055	5.6
4-Chloro-3-methylphenol	59-50-7	<MDL	mg/L	0.040	0.200	0.018	14
Safrole	94-59-7	<MDL	mg/L	0.026	0.200	0.081	22
1,2,4,5-Tetrachlorobenzene	95-94-3	<MDL	mg/L	0.020	0.200	0.055	14
Hexachlorocyclopentadiene	77-47-4	<MDL	mg/L	0.023	0.200	0.057	2.4
2,4,6-Trichlorophenol	88-06-2	<MDL	mg/L	0.028	0.200	0.035	7.4
2,4,5-Trichlorophenol	95-95-4	<MDL	mg/L	0.064	0.254	0.180	7.4
Isosafrole	120-58-1	<MDL	mg/L	0.020	0.200	0.081	2.6
2-Chloronaphthalene	91-58-7	<MDL	mg/L	0.017	0.200	0.055	5.6
2-Nitroaniline	88-74-4	<MDL	mg/L	0.018	0.200	0.270	14
Dimethyl phthalate	131-11-3	<MDL	mg/L	0.010	0.200	0.047	28
2,6-Dinitrotoluene	606-20-2	<MDL	mg/L	0.014	0.200	0.550	28
Acenaphthylene	208-96-8	<MDL	mg/L	0.021	0.200	0.059	3.4
4-Nitroaniline	100-01-6	<MDL	mg/L	0.021	0.200	0.028	28
Acenaphthene	83-32-9	<MDL	mg/L	0.019	0.200	0.059	3.4
2,4-Dinitrophenol	51-28-5	<MDL	mg/L	0.057	0.50	0.120	160
4-Nitrophenol	100-02-7	<MDL	mg/L	0.023	0.500	0.120	29
Pentachlorobenzene	608-93-5	<MDL	mg/L	0.015	0.200	0.055	10
2,4-Dinitrotoluene	121-14-2	<MDL	mg/L	0.017	0.200	0.320	140
2,3,4,6-Tetrachlorophenol	58-90-2	<MDL	mg/L	0.014	0.200	0.030	7.4
Diethylphthalate	84-66-2	<MDL	mg/L	0.013	0.200	0.200	28
Fluorene	86-73-7	<MDL	mg/L	0.011	0.200	0.059	3.4

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	PQL LIMIT	LDR WW LIMIT	LDR NWW LIMIT
4,6-Dinitro-2-methylphenol	534-52-1	<MDL	mg/L	0.032	0.50	0.280	160
Diphenylamine	122-39-4	<MDL	mg/L	0.026	0.200	0.920	13
4-Bromophenyl phenyl ether	101-55-3	<MDL	mg/L	0.024	0.200	0.055	15
Phenacetin	62-44-2	<MDL	mg/L	0.024	0.200	0.081	16
Hexachlorobenzene	118-74-1	<MDL	mg/L	0.018	0.200	0.055	10
Pentachlorophenol	87-86-5	<MDL	mg/L	0.030	0.200	0.089	7.4
Pentachloronitrobenzene	82-68-8	<MDL	mg/L	0.032	0.200	0.055	4.8
Phenanthrene	85-01-8	<MDL	mg/L	0.015	0.200	0.059	5.6
Anthracene	120-12-7	<MDL	mg/L	0.013	0.200	0.059	3.4
Dinoseb	88-85-7	<MDL	mg/L	0.027	0.20	0.066	2.5
Di-n-butylphthalate	84-74-2	<MDL	mg/L	0.018	0.200	0.057	28
Isodrin	465-73-6	<MDL	mg/L	0.028	0.200	0.021	0.066
Fluoranthene	206-44-0	<MDL	mg/L	0.014	0.200	0.068	3.4
Pyrene	129-00-0	<MDL	mg/L	0.011	0.200	0.067	8.2
Benzyl butyl phthalate	85-68-7	<MDL	mg/L	0.017	0.200	0.017	28
Benz(a)anthracene	56-55-3	<MDL	mg/L	0.022	0.200	0.059	3.4
Chrysene	218-01-9	<MDL	mg/L	0.028	0.200	0.059	3.4
Di-n-octyl phthalate	117-84-0	<MDL	mg/L	0.035	0.200	0.017	28
Bis(2-ethylhexyl)phthalate	117-81-7	0.046	mg/L	0.035	0.200	0.280	28
Benzo(b)fluoranthene	205-99-2	<MDL	mg/L	0.022	0.200	0.110	6.8
Benzo(k)fluoranthene	207-08-9	<MDL	mg/L	0.031	0.200	0.110	6.8
Benzo(a)pyrene	50-32-8	<MDL	mg/L	0.020	0.200	0.061	3.4
3-Methylcholanthrene	56-49-5	<MDL	mg/L	0.029	0.200	0.0055	15
Indeno(1,2,3-cd)pyrene	193-39-5	<MDL	mg/L	0.032	0.200	0.0055	3.4
Dibenz(a,h)anthracene	53-70-3	<MDL	mg/L	0.019	0.200	0.055	8.2
Benzo(g,h,i)perylene	191-24-2	<MDL	mg/L	0.018	0.200	0.0055	1.8

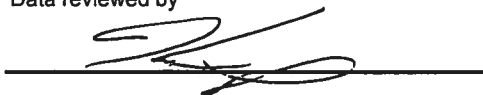
NOTES:

1. The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.
2. Results Reported as N/A were not analyzed for.
3. Results Reported as N/Q could not be analyzed for due to sample interference.
4. Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
5. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
6. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations. Perma-Fix Analytical Services analytical method S.O.P.s are based on modified SW-846 methods where applicable.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures. Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by

Date






PERMA-FIX ANALYTICAL SERVICES

2010 N.W. 67th Place
 Gainesville, Fl. 32653
 (352) 373-6066 Fax: (352) 338-7922

**REPORT OF TOTAL METALS ANALYSIS
 ICP-MS; AGILENT MODEL 7700X**

PAS Number : PAS-10576
 Project : Spill Response
 Sample ID : OUTFALL #3
 Sample Matrix : Liquid

Chain of Custody : N/A
 Date Analyzed : 01/05/17
 Analyst : MCN

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>LIMIT</u>	<u>PQL</u> <u>LIMIT</u>	<u>PAS</u> <u>SOP</u>
ANTIMONY, (Sb)	<PQL	ppm	0.035	1.00	4000-015
ARSENIC, (As)	<PQL	ppm	0.0645	1.00	4000-015
BARIUM, (Ba)	<PQL	ppm	0.1102	1.00	4000-015
BERYLLIUM, (Be)	<PQL	ppm	0.0801	1.00	4000-015
CADMIUM, (Cd)	<PQL	ppm	0.0453	1.00	4000-015
CHROMIUM, (Cr)	<PQL	ppm	0.7133	2.85	4000-015
LEAD, (Pb)	<PQL	ppm	0.0417	1.00	4000-015
MERCURY, (Hg)	<PQL	ppm	0.0075	0.10	4000-015
NICKEL, (Ni)	<PQL	ppm	0.0538	1.00	4000-015
SELENIUM, (Se)	<PQL	ppm	0.221	1.00	4000-015
SILVER, (Ag)	<PQL	ppm	0.0046	0.10	4000-015
THALLIUM, (Tl)	<PQL	ppm	0.0267	1.00	4000-015
VANADIUM, (V)	<PQL	ppm	0.0486	1.00	4000-015
ZINC, (Zn)	<PQL	ppm	0.0956	5.00	4000-015
ALUMINUM, (Al)	<PQL	ppm	1.487	10.0	4000-015
COPPER, (Cu)	<PQL	ppm	0.0586	1.00	4000-015
IRON, (Fe)	4.43	ppm	0.4638	1.9	4000-015
MAGNESIUM, (Mg)	19.1	ppm	0.132	1.00	4000-015
PHOSPHORUS, (P)	33.5	ppm	3.67	14.7	4000-015
POTASSIUM, (K)	12.2	ppm	2.787	11.1	4000-015
SODIUM, (Na)	77.1	ppm	1.092	10.0	4000-015
SULFUR, (S)	<PQL	ppm	133.1	500	4000-015
URANIUM 238, (U)	<PQL	ppm	0.0247	1.00	4000-015


NOTES:

NR: Not Requested

1. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
2. The PQL (Practical Quantitation Level) is based on 4X the MDL or the lowest calibration standard.
3. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
4. Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.

All QC Passes

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

 Data reviewed by  Date 1/9/17

REPORT OF GCMS 'VOLATILES' ANALYSIS

PAS Number : 10577
 Chain of Custody : N/A
 Project # : Spill Response
 Sample ID : LOWER OUTFALL
 Sample Matrix : Aqueous Liquid


Date Analyzed : 1/5/2017
 PAS SOP : 4000-016
 Analyst : VTT

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>Limit</u>	<u>PQL</u> <u>LIMIT</u>	<u>UTS WW</u> <u>LIMIT</u>	<u>UTS NWW</u> <u>LIMIT</u>
Dichlorodifluoromethane	<MDL	mg/L	0.482	2.50	0.230	7.20
Chloromethane	<MDL	mg/L	0.590	2.50	0.190	30.0
Vinyl Chloride	<MDL	mg/L	0.331	2.50	0.270	6.00
Bromomethane	<MDL	mg/L	0.403	2.50	0.110	15.0
Chloroethane	<MDL	mg/L	0.369	2.50	0.270	6.00
Trichlorofluoromethane	<MDL	mg/L	0.274	2.50	0.020	30.0
1,1-Dichloroethene	<MDL	mg/L	0.316	2.50	0.025	6.00
Methylene Chloride	<MDL	mg/L	0.171	2.50	0.089	30.0
Trans-1,2 -Dichloroethene	<MDL	mg/L	0.261	2.50	0.054	30.0
1,1 -Dichloroethane	<MDL	mg/L	0.235	2.50	0.059	6.00
Trichloromethane (Chloroform)	<MDL	mg/L	0.254	2.50	0.046	6.00
1,1,1 -Trichloroethane	<MDL	mg/L	0.189	2.50	0.054	6.00
Tetrachloromethane (Carbon Tet.)	<MDL	mg/L	0.271	2.50	0.057	6.00
Benzene	<MDL	mg/L	0.229	2.50	0.140	10.0
1,2 -Dichloroethane	<MDL	mg/L	0.204	2.50	0.210	6.00
Trichloroethene	<MDL	mg/L	0.642	2.58	0.054	6.00
1,2 -Dichloropropane	<MDL	mg/L	0.286	2.50	0.850	18.0
Bromodichloromethane	<MDL	mg/L	0.186	2.50	0.350	15.0
Dibromomethane	<MDL	mg/L	0.173	2.50	0.110	15.0
cis- 1,3 - Dichloropropene	<MDL	mg/L	0.194	2.50	0.036	18.0
Methylbenzene (Toluene)	<MDL	mg/L	0.303	2.50	0.080	10.0
Trans -1,3 -Dichloropropene	<MDL	mg/L	0.235	2.50	0.036	18.0
1,1,2- Trichloroethane	<MDL	mg/L	0.245	2.50	0.054	6.00
Tetrachloroethene (Perc)	<MDL	mg/L	0.237	2.50	0.056	6.00
Dibromochloromethane	<MDL	mg/L	0.237	2.50	0.057	15.0
1,2 -Dibromoethane	<MDL	mg/L	0.362	2.50	0.028	15.0
Chlorobenzene	<MDL	mg/L	0.347	2.50	0.057	6.00
1,1,1,2 -Tetrachloroethane	<MDL	mg/L	0.314	2.50	0.057	6.00
Ethylbenzene	<MDL	mg/L	0.323	2.50	0.057	10.0
m & p Xylenes	<MDL	mg/L	0.578	2.50	0.213	20.0
o - Xylenes	<MDL	mg/L	0.300	2.50	0.107	10.0
Tribromomethane (Bromoform)	<MDL	mg/L	0.144	2.50	0.630	15.0
1,1,2,2 - Tetrachloroethane	<MDL	mg/L	0.255	2.50	0.057	6.00
1,2,3 -Trichloropropane	<MDL	mg/L	0.264	2.50	0.850	30.0

NOTES :

- *REG. LIMITS are for LDR Volatiles in Waste Water Matrices.
- Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
- Results Reported as N/A were not analyzed for.
- Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.
- Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
- Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
- The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by 

119117
 Date



PERMA-FIX ANALYTICAL SERVICES

1940 N.W. 67th Place
 Gainesville, FL 32653
 (352) 373-6066 Fax: (352) 338-7922

REPORT OF GCMS 'SEMI-VOLATILES' ANALYSIS

PAS Number : 10577
 Project# : Spill Response
 Sample ID : Lower Outfall
 Sample Matrix : Water

Chain of Custody : N/A
 Date Analyzed : 01/06/17
 PAS SOP : 4000-006
 Analyst : KEJ

****The reported value is an estimate. It failed to meet the established quality control criteria for either precision (duplicate) or accuracy (spike).**

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	REPORT LIMIT	LDR WW LIMIT	LDR NWW LIMIT
N-Nitrosodimethylamine	62-75-9	<MDL	mg/L	0.021	0.200	0.810	2.3
Pyridine	110-86-1	<MDL	mg/L	0.021	0.200	0.039	16
Aniline	62-53-3	<MDL	mg/L	0.014	0.200	0.810	14
Phenol	108-95-2	<MDL	mg/L	0.019	0.200	0.039	6.2
2-Chlorophenol	95-57-8	<MDL	mg/L	0.019	0.200	0.044	5.7
Bis(2-chloroethyl) ether	111-44-4	<MDL	mg/L	0.017	0.200	0.033	6
1,3-Dichlorobenzene	541-73-1	<MDL	mg/L	0.019	0.200	0.036	6
1,4-Dichlorobenzene	106-46-7	<MDL	mg/L	0.021	0.200	0.090	6
1,2-Dichlorobenzene	95-50-1	<MDL	mg/L	0.013	0.200	0.088	6
2-Methylphenol	95-48-7	<MDL	mg/L	0.014	0.200	0.110	5.6
Bis(2-chloroisopropyl) ether	39638-32-9	<MDL	mg/L	0.019	0.200	0.110	7.2
Acetophenone	98-86-2	0.064	mg/L	0.023	0.200	0.010	9.7
4-Methylphenol / 3-Methylpheno	108-44-5 / 108-35	<MDL	mg/L	0.028	0.200	0.770	5.6
N-nitroso-di-n-propylamine	621-64-7	<MDL	mg/L	0.030	0.200	0.400	14
Hexachloroethane	67-72-1	<MDL	mg/L	0.027	0.200	0.055	30
Nitrobenzene	98-95-3	<MDL	mg/L	0.025	0.200	0.068	14
2-Nitrophenol	88-75-5	<MDL	mg/L	0.040	0.200	0.028	13
2,4-Dimethylphenol	105-67-9	<MDL	mg/L	0.016	0.200	0.036	14
bis (2-chloroethoxy) methane	111-91-1	<MDL	mg/L	0.023	0.200	0.036	7.2
2,4-Dichlorophenol	120-83-2	<MDL	mg/L	0.026	0.200	0.044	14
1,2,4-Trichlorobenzene	120-82-1	<MDL	mg/L	0.019	0.200	0.055	19
Naphthalene	91-20-3	<MDL	mg/L	0.024	0.200	0.059	5.6
4-Chloroaniline (p-Chloroaniline)	106-47-8	<MDL	mg/L	0.037	0.200	0.460	16
2,6-Dichlorophenol	87-65-0	<MDL	mg/L	0.017	0.200	0.044	14
Hexachloropropene	1888-71-7	<MDL	mg/L	0.029	0.200	0.035	30
Hexachloro-1,3-butadiene	87-68-3	<MDL	mg/L	0.024	0.200	0.055	5.6
4-Chloro-3-methylphenol	59-50-7	<MDL	mg/L	0.040	0.200	0.018	14
Safrole	94-59-7	<MDL	mg/L	0.026	0.200	0.081	22
1,2,4,5-Tetrachlorobenzene	95-94-3	<MDL	mg/L	0.020	0.200	0.055	14
Hexachlorocyclopentadiene	77-47-4	<MDL	mg/L	0.023	0.200	0.057	2.4
2,4,6-Trichlorophenol	88-06-2	<MDL	mg/L	0.028	0.200	0.035	7.4
2,4,5-Trichlorophenol	95-95-4	<MDL	mg/L	0.064	0.254	0.180	7.4
Isosafrole	120-58-1	<MDL	mg/L	0.020	0.200	0.081	2.6
2-Chloronaphthalene	91-58-7	<MDL	mg/L	0.017	0.200	0.055	5.6
2-Nitroaniline	88-74-4	<MDL	mg/L	0.018	0.200	0.270	14
Dimethyl phthalate	131-11-3	0.022	mg/L	0.010	0.200	0.047	28
2,6-Dinitrotoluene	606-20-2	<MDL	mg/L	0.014	0.200	0.550	28
Acenaphthylene	208-96-8	<MDL	mg/L	0.021	0.200	0.059	3.4
4-Nitroaniline	100-01-6	<MDL	mg/L	0.021	0.200	0.028	28
Acenaphthene	83-32-9	<MDL	mg/L	0.019	0.200	0.059	3.4
2,4-Dinitrophenol	51-28-5	<MDL	mg/L	0.057	0.50	0.120	160
4-Nitrophenol	100-02-7	<MDL	mg/L	0.023	0.500	0.120	29
Pentachlorobenzene	608-93-5	<MDL	mg/L	0.015	0.200	0.055	10
2,4-Dinitrotoluene	121-14-2	<MDL	mg/L	0.017	0.200	0.320	140
2,3,4,6-Tetrachlorophenol	58-90-2	<MDL	mg/L	0.014	0.200	0.030	7.4
Diethylphthalate	84-66-2	<MDL	mg/L	0.013	0.200	0.200	28
Fluorene	86-73-7	<MDL	mg/L	0.011	0.200	0.059	3.4

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	PQL LIMIT	LDR WW LIMIT	LDR NWW LIMIT
4,6-Dinitro-2-methylphenol	534-52-1	<MDL	mg/L	0.032	0.50	0.280	160
Diphenylamine	122-39-4	<MDL	mg/L	0.026	0.200	0.920	13
4-Bromophenyl phenyl ether	101-55-3	<MDL	mg/L	0.024	0.200	0.055	15
Phenacetin	62-44-2	<MDL	mg/L	0.024	0.200	0.081	16
Hexachlorobenzene	118-74-1	<MDL	mg/L	0.018	0.200	0.055	10
Pentachlorophenol	87-86-5	<MDL	mg/L	0.030	0.200	0.089	7.4
Pentachloronitrobenzene	82-68-8	<MDL	mg/L	0.032	0.200	0.055	4.8
Phenanthrene	85-01-8	<MDL	mg/L	0.015	0.200	0.059	5.6
Anthracene	120-12-7	<MDL	mg/L	0.013	0.200	0.059	3.4
Dinoseb	88-85-7	<MDL	mg/L	0.027	0.20	0.066	2.5
Di-n-butylphthalate	84-74-2	<MDL	mg/L	0.018	0.200	0.057	28
Isodrin	465-73-6	<MDL	mg/L	0.028	0.200	0.021	0.066
Fluoranthene	206-44-0	<MDL	mg/L	0.014	0.200	0.068	3.4
Pyrene	129-00-0	<MDL	mg/L	0.011	0.200	0.067	8.2
Benzyl butyl phthalate	85-68-7	<MDL	mg/L	0.017	0.200	0.017	28
Benz(a)anthracene	56-55-3	<MDL	mg/L	0.022	0.200	0.059	3.4
Chrysene	218-01-9	<MDL	mg/L	0.028	0.200	0.059	3.4
Di-n-octyl phthalate	117-84-0	<MDL	mg/L	0.035	0.200	0.017	28
Bis(2-ethylhexyl)phthalate	117-81-7	<MDL	mg/L	0.035	0.200	0.280	28
Benzo(b)fluoranthene	205-99-2	<MDL	mg/L	0.022	0.200	0.110	6.8
Benzo(k)fluoranthene	207-08-9	<MDL	mg/L	0.031	0.200	0.110	6.8
Benzo(a)pyrene	50-32-8	<MDL	mg/L	0.020	0.200	0.061	3.4
3-Methylcholanthrene	56-49-5	<MDL	mg/L	0.029	0.200	0.0055	15
Indeno(1,2,3-cd)pyrene	193-39-5	<MDL	mg/L	0.032	0.200	0.0055	3.4
Dibenz(a,h)anthracene	53-70-3	<MDL	mg/L	0.019	0.200	0.055	8.2
Benzo(g,h,i)perylene	191-24-2	<MDL	mg/L	0.018	0.200	0.0055	1.8

NOTES:

1. The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.
2. Results Reported as N/A were not analyzed for.
3. Results Reported as N/Q could not be analyzed for due to sample interference.
4. Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
5. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
6. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations. Perma-Fix Analytical Services analytical method S.O.P.s are based on modified SW-846 methods where applicable.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by

Date






PERMA-FIX ANALYTICAL SERVICES

2010 N.W. 67th Place
 Gainesville, FL 32653
 (352) 373-6066 Fax: (352) 338-7922

REPORT OF TOTAL METALS ANALYSIS
 ICP-MS; AGILENT MODEL 7700X

PAS Number : PAS-10577
 Project : Spill Response
 Sample ID : LOWER OUTFALL
 Sample Matrix : Liquid

Chain of Custody : N/A
 Date Analyzed : 01/05/17
 Analyst : MCN

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>LIMIT</u>	<u>PQL</u> <u>LIMIT</u>	<u>PAS</u> <u>SOP</u>
ANTIMONY, (Sb)	<PQL	ppm	0.0349	1.00	4000-015
ARSENIC, (As)	<PQL	ppm	0.0645	1.00	4000-015
BARIUM, (Ba)	<PQL	ppm	0.1102	1.00	4000-015
BERYLLIUM, (Be)	<PQL	ppm	0.0801	1.00	4000-015
CADMIUM, (Cd)	<PQL	ppm	0.0453	1.00	4000-015
CHROMIUM, (Cr)	<PQL	ppm	0.713	2.85	4000-015
LEAD, (Pb)	<PQL	ppm	0.0417	1.00	4000-015
MERCURY, (Hg)	<PQL	ppm	0.00750	0.10	4000-015
NICKEL, (Ni)	<PQL	ppm	0.0538	1.00	4000-015
SELENIUM, (Se)	<PQL	ppm	0.221	1.00	4000-015
SILVER, (Ag)	<PQL	ppm	0.0046	0.10	4000-015
THALLIUM, (Tl)	<PQL	ppm	0.0267	1.00	4000-015
VANADIUM, (V)	<PQL	ppm	0.0486	1.00	4000-015
ZINC, (Zn)	<PQL	ppm	0.10	5.00	4000-015
ALUMINUM, (Al)	<PQL	ppm	1.49	10.0	4000-015
COPPER, (Cu)	<PQL	ppm	0.0586	1.00	4000-015
IRON, (Fe)	2.92	ppm	0.464	1.9	4000-015
MAGNESIUM, (Mg)	19.0	ppm	0.132	1.00	4000-015
PHOSPHORUS, (P)	30.8	ppm	3.67	14.7	4000-015
POTASSIUM, (K)	17.4	ppm	2.79	11.1	4000-015
SODIUM, (Na)	73.0	ppm	1.09	10.0	4000-015
SULFUR, (S)	<PQL	ppm	133	532	4000-015
URANIUM 238, (U)	<PQL	ppm	0.0247	1.00	4000-015

NOTES :

NR: Not Requested

1. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
2. The PQL (Practical Quantitation Level) is based on 4X the MDL or the lowest calibration standard.
3. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
4. Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.

All QC Passes

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

 Data reviewed by  Date 1/9/17

REPORT OF GCMS 'VOLATILES' ANALYSIS

PAS Number : 10578
 Chain of Custody : N/A
 Project # : Spill Response
 Sample ID : TOTE
 Sample Matrix : Aqueous Liquid

Date Analyzed : 1/5/2017
 PAS SOP : 4000-016
 Analyst : VTT

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>Limit</u>	<u>PQL</u> <u>LIMIT</u>	<u>UTS WW</u> <u>LIMIT</u>	<u>UTS NWW</u> <u>LIMIT</u>
Dichlorodifluoromethane	<MDL	mg/L	0.482	2.50	0.230	7.20
Chloromethane	<MDL	mg/L	0.590	2.50	0.190	30.0
Vinyl Chloride	<MDL	mg/L	0.331	2.50	0.270	6.00
Bromomethane	<MDL	mg/L	0.403	2.50	0.110	15.0
Chloroethane	<MDL	mg/L	0.369	2.50	0.270	6.00
Trichlorofluoromethane	<MDL	mg/L	0.274	2.50	0.020	30.0
1,1-Dichloroethene	<MDL	mg/L	0.316	2.50	0.025	6.00
Methylene Chloride	<MDL	mg/L	0.171	2.50	0.089	30.0
Trans-1,2 -Dichloroethene	<MDL	mg/L	0.261	2.50	0.054	30.0
1,1 -Dichloroethane	<MDL	mg/L	0.235	2.50	0.059	6.00
Trichloromethane (Chloroform)	<MDL	mg/L	0.254	2.50	0.046	6.00
1,1,1 -Trichloroethane	<MDL	mg/L	0.189	2.50	0.054	6.00
Tetrachloromethane (Carbon Tet.)	<MDL	mg/L	0.271	2.50	0.057	6.00
Benzene	<MDL	mg/L	0.229	2.50	0.140	10.0
1,2 -Dichloroethane	<MDL	mg/L	0.204	2.50	0.210	6.00
Trichloroethene	<MDL	mg/L	0.642	2.58	0.054	6.00
1,2 -Dichloropropane	<MDL	mg/L	0.286	2.50	0.850	18.0
Bromodichloromethane	<MDL	mg/L	0.186	2.50	0.350	15.0
Dibromomethane	<MDL	mg/L	0.173	2.50	0.110	15.0
cis- 1,3 - Dichloropropene	<MDL	mg/L	0.194	2.50	0.036	18.0
Methylbenzene (Toluene)	4.14	mg/L	0.303	2.50	0.080	10.0
Trans -1,3 -Dichloropropene	<MDL	mg/L	0.235	2.50	0.036	18.0
1,1,2- Trichloroethane	<MDL	mg/L	0.245	2.50	0.054	6.00
Tetrachloroethene (Perc)	27.3	mg/L	0.237	2.50	0.056	6.00
Dibromochloromethane	<MDL	mg/L	0.237	2.50	0.057	15.0
1,2 -Dibromoethane	<MDL	mg/L	0.362	2.50	0.028	15.0
Chlorobenzene	<MDL	mg/L	0.347	2.50	0.057	6.00
1,1,1,2 -Tetrachloroethane	<MDL	mg/L	0.314	2.50	0.057	6.00
Ethylbenzene	1.13	mg/L	0.323	2.50	0.057	10.0
m & p Xylenes	5.08	mg/L	0.578	2.50	0.213	20.0
o - Xylenes	5.66	mg/L	0.300	2.50	0.107	10.0
Tribromomethane (Bromoform)	<MDL	mg/L	0.144	2.50	0.630	15.0
1,1,2,2 - Tetrachloroethane	<MDL	mg/L	0.255	2.50	0.057	6.00
1,2,3 -Trichloropropane	<MDL	mg/L	0.264	2.50	0.850	30.0

NOTES :

- *REG. LIMITS are for LDR Volatiles in Waste Water Matrices.
- Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
- Results Reported as N/A were not analyzed for.
- Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.
- Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
- Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
- The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by 

119117
 Date



PERMA-FIX ANALYTICAL SERVICES

1940 N.W. 67th Place
 Gainesville, FL 32653
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REPORT OF GCMS 'SEMI-VOLATILES' ANALYSIS

PAS Number : 10578
 Project# : Spill Response
 Sample ID : Tote
 Sample Matrix : Water

Chain of Custody : N/A
 Date Analyzed : 01/06/17
 PAS SOP : 4000-006
 Analyst : KEJ

****The reported value is an estimate. It failed to meet the established quality control criteria for either precision (duplicate) or accuracy (spike).**

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	REPORT LIMIT	LDR WW LIMIT	LDR NWW LIMIT
N-Nitrosodimethylamine	62-75-9	<MDL	mg/L	0.021	0.200	0.810	2.3
Pyridine	110-86-1	<MDL	mg/L	0.021	0.200	0.039	16
Aniline	62-53-3	<MDL	mg/L	0.014	0.200	0.810	14
Phenol	108-95-2	<MDL	mg/L	0.019	0.200	0.039	6.2
2-Chlorophenol	95-57-8	<MDL	mg/L	0.019	0.200	0.044	5.7
Bis(2-chloroethyl) ether	111-44-4	<MDL	mg/L	0.017	0.200	0.033	6
1,3-Dichlorobenzene	541-73-1	<MDL	mg/L	0.019	0.200	0.036	6
1,4-Dichlorobenzene	106-46-7	<MDL	mg/L	0.021	0.200	0.090	6
1,2-Dichlorobenzene	95-50-1	<MDL	mg/L	0.013	0.200	0.088	6
2-Methylphenol	95-48-7	<MDL	mg/L	0.014	0.200	0.110	5.6
Bis(2-chloroisopropyl) ether	39638-32-9	<MDL	mg/L	0.019	0.200	0.110	7.2
Acetophenone	98-86-2	1.72	mg/L	0.023	0.200	0.010	9.7
4-Methylphenol / 3-Methylpheno	108-44-5 / 108-35	<MDL	mg/L	0.028	0.200	0.770	5.6
N-nitroso-di-n-propylamine	621-64-7	<MDL	mg/L	0.030	0.200	0.400	14
Hexachloroethane	67-72-1	<MDL	mg/L	0.027	0.200	0.055	30
Nitrobenzene	98-95-3	<MDL	mg/L	0.025	0.200	0.068	14
2-Nitrophenol	88-75-5	<MDL	mg/L	0.040	0.200	0.028	13
2,4-Dimethylphenol	105-67-9	<MDL	mg/L	0.016	0.200	0.036	14
bis (2-chloroethoxy) methane	111-91-1	<MDL	mg/L	0.023	0.200	0.036	7.2
2,4-Dichlorophenol	120-83-2	<MDL	mg/L	0.026	0.200	0.044	14
1,2,4-Trichlorobenzene	120-82-1	<MDL	mg/L	0.019	0.200	0.055	19
Naphthalene	91-20-3	0.120	mg/L	0.024	0.200	0.059	5.6
4-Chloroaniline (p-Chloroaniline)	106-47-8	<MDL	mg/L	0.037	0.200	0.460	16
2,6-Dichlorophenol	87-65-0	<MDL	mg/L	0.017	0.200	0.044	14
Hexachloropropene	1888-71-7	<MDL	mg/L	0.029	0.200	0.035	30
Hexachloro-1,3-butadiene	87-68-3	<MDL	mg/L	0.024	0.200	0.055	5.6
4-Chloro-3-methylphenol	59-50-7	<MDL	mg/L	0.040	0.200	0.018	14
Safrole	94-59-7	<MDL	mg/L	0.026	0.200	0.081	22
1,2,4,5-Tetrachlorobenzene	95-94-3	<MDL	mg/L	0.020	0.200	0.055	14
Hexachlorocyclopentadiene	77-47-4	<MDL	mg/L	0.023	0.200	0.057	2.4
2,4,6-Trichlorophenol	88-06-2	<MDL	mg/L	0.028	0.200	0.035	7.4
2,4,5-Trichlorophenol	95-95-4	<MDL	mg/L	0.064	0.254	0.180	7.4
Isosafrole	120-58-1	<MDL	mg/L	0.020	0.200	0.081	2.6
2-Chloronaphthalene	91-58-7	<MDL	mg/L	0.017	0.200	0.055	5.6
2-Nitroaniline	88-74-4	<MDL	mg/L	0.018	0.200	0.270	14
Dimethyl phthalate	131-11-3	0.572	mg/L	0.010	0.200	0.047	28
2,6-Dinitrotoluene	606-20-2	<MDL	mg/L	0.014	0.200	0.550	28
Acenaphthylene	208-96-8	<MDL	mg/L	0.021	0.200	0.059	3.4
4-Nitroaniline	100-01-6	<MDL	mg/L	0.021	0.200	0.028	28
Acenaphthene	83-32-9	<MDL	mg/L	0.019	0.200	0.059	3.4
2,4-Dinitrophenol	51-28-5	<MDL	mg/L	0.057	0.50	0.120	160
4-Nitrophenol	100-02-7	<MDL	mg/L	0.023	0.500	0.120	29
Pentachlorobenzene	608-93-5	<MDL	mg/L	0.015	0.200	0.055	10
2,4-Dinitrotoluene	121-14-2	<MDL	mg/L	0.017	0.200	0.320	140
2,3,4,6-Tetrachlorophenol	58-90-2	<MDL	mg/L	0.014	0.200	0.030	7.4
Diethylphthalate	84-66-2	<MDL	mg/L	0.013	0.200	0.200	28
Fluorene	86-73-7	<MDL	mg/L	0.011	0.200	0.059	3.4

ANALYTE	CAS#	RESULT**	UNITS	MDL LIMIT	PQL LIMIT	LDR WW LIMIT	LDR NWW LIMIT
4,6-Dinitro-2-methylphenol	534-52-1	<MDL	mg/L	0.032	0.50	0.280	160
Diphenylamine	122-39-4	<MDL	mg/L	0.026	0.200	0.920	13
4-Bromophenyl phenyl ether	101-55-3	<MDL	mg/L	0.024	0.200	0.055	15
Phenacetin	62-44-2	<MDL	mg/L	0.024	0.200	0.081	16
Hexachlorobenzene	118-74-1	<MDL	mg/L	0.018	0.200	0.055	10
Pentachlorophenol	87-86-5	<MDL	mg/L	0.030	0.200	0.089	7.4
Pentachloronitrobenzene	82-68-8	<MDL	mg/L	0.032	0.200	0.055	4.8
Phenanthrene	85-01-8	<MDL	mg/L	0.015	0.200	0.059	5.6
Anthracene	120-12-7	<MDL	mg/L	0.013	0.200	0.059	3.4
Dinoseb	88-85-7	<MDL	mg/L	0.027	0.20	0.066	2.5
Di-n-butylphthalate	84-74-2	<MDL	mg/L	0.018	0.200	0.057	28
Isodrin	465-73-6	<MDL	mg/L	0.028	0.200	0.021	0.066
Fluoranthene	206-44-0	<MDL	mg/L	0.014	0.200	0.068	3.4
Pyrene	129-00-0	<MDL	mg/L	0.011	0.200	0.067	8.2
Benzyl butyl phthalate	85-68-7	<MDL	mg/L	0.017	0.200	0.017	28
Benz(a)anthracene	56-55-3	<MDL	mg/L	0.022	0.200	0.059	3.4
Chrysene	218-01-9	<MDL	mg/L	0.028	0.200	0.059	3.4
Di-n-octyl phthalate	117-84-0	<MDL	mg/L	0.035	0.200	0.017	28
Bis(2-ethylhexyl)phthalate	117-81-7	0.452	mg/L	0.035	0.200	0.280	28
Benzo(b)fluoranthene	205-99-2	<MDL	mg/L	0.022	0.200	0.110	6.8
Benzo(k)fluoranthene	207-08-9	<MDL	mg/L	0.031	0.200	0.110	6.8
Benzo(a)pyrene	50-32-8	<MDL	mg/L	0.020	0.200	0.061	3.4
3-Methylcholanthrene	56-49-5	<MDL	mg/L	0.029	0.200	0.0055	15
Indeno(1,2,3-cd)pyrene	193-39-5	<MDL	mg/L	0.032	0.200	0.0055	3.4
Dibenz(a,h)anthracene	53-70-3	<MDL	mg/L	0.019	0.200	0.055	8.2
Benzo(g,h,i)perylene	191-24-2	<MDL	mg/L	0.018	0.200	0.0055	1.8

NOTES:

1. The PQL (Practical Quantitation Level) is based on 4x the MDL or the lowest calibration standard.
2. Results Reported as N/A were not analyzed for.
3. Results Reported as N/Q could not be analyzed for due to sample interference.
4. Results with reported values less than PQL must be regarded as estimates and may not be compared to regulatory limits.
5. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
6. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations. Perma-Fix Analytical Services analytical method S.O.P.s are based on modified SW-846 methods where applicable.

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures. Please direct any questions to Ken Justice, Laboratory Manager.

Data reviewed by

Date






PERMA-FIX ANALYTICAL SERVICES

2010 N.W. 67th Place
 Gainesville, FL 32653
 (352) 373-6066 Fax: (352) 338-7922

REPORT OF TOTAL METALS ANALYSIS
 ICP-MS; AGILENT MODEL 7700X

PAS Number : PAS-10578
 Project : Spill Response
 Sample ID : TOTE
 Sample Matrix : Liquid

Chain of Custody : N/A
 Date Analyzed : 01/05/17
 Analyst : MCN

<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>MDL</u> <u>LIMIT</u>	<u>PQL</u> <u>LIMIT</u>	<u>PAS</u> <u>SOP</u>
ANTIMONY, (Sb)	<PQL	ppm	0.0349	1.00	4000-015
ARSENIC, (As)	<PQL	ppm	0.0645	1.00	4000-015
BARIUM, (Ba)	<PQL	ppm	0.1102	1.00	4000-015
BERYLLIUM, (Be)	<PQL	ppm	0.0801	1.00	4000-015
CADMIUM, (Cd)	<PQL	ppm	0.0453	1.00	4000-015
CHROMIUM, (Cr)	<PQL	ppm	0.713	2.85	4000-015
LEAD, (Pb)	<PQL	ppm	0.0417	1.00	4000-015
MERCURY, (Hg)	<PQL	ppm	0.00750	0.10	4000-015
NICKEL, (Ni)	<PQL	ppm	0.0538	1.00	4000-015
SELENIUM, (Se)	<PQL	ppm	0.221	1.00	4000-015
SILVER, (Ag)	<PQL	ppm	0.0046	0.10	4000-015
THALLIUM, (Tl)	<PQL	ppm	0.0267	1.00	4000-015
VANADIUM, (V)	<PQL	ppm	0.0486	1.00	4000-015
ZINC, (Zn)	<PQL	ppm	0.10	5.00	4000-015
ALUMINUM, (Al)	<PQL	ppm	1.49	10.0	4000-015
COPPER, (Cu)	<PQL	ppm	0.0586	1.00	4000-015
IRON, (Fe)	9.56	ppm	0.464	1.9	4000-015
MAGNESIUM, (Mg)	19.3	ppm	0.132	1.00	4000-015
PHOSPHORUS, (P)	<PQL	ppm	3.67	14.7	4000-015
POTASSIUM, (K)	51.0	ppm	2.79	11.1	4000-015
SODIUM, (Na)	32.4	ppm	1.09	10.0	4000-015
SULFUR, (S)	<PQL	ppm	133	532	4000-015
URANIUM 238, (U)	<PQL	ppm	0.0247	1.00	4000-015

NOTES :

NR: Not Requested

1. Unless otherwise indicated, concentrations are reported on an as-received rather than dry weight basis.
2. The PQL (Practical Quantitation Level) is based on 4X the MDL or the lowest calibration standard.
3. Perma-Fix Analytical Services is not a state certified lab, therefore these results cannot be used to make regulatory determinations.
4. Perma-Fix Analytical Services analytical method S.O.P. s are based on modified SW-846 methods where applicable.

All QC Passes

This report has been prepared and reviewed in accordance with Perma-Fix of Florida, Inc. standard operating procedures.
 Please direct any questions to Ken Justice, Laboratory Manager.

 Data reviewed by 119117
Date