TRADEBE
Environmental Services™

Hand Delivered

October 11, 2016

Mr. John Howard,
Senior Environmental Manager
Indiana Department of
Environmental Management
Northern Regional Office
300 North Michigan Avenue, Suite 450
South Bend, Indiana 46601

Re: Tradebe Treatment and Recycling, LLC Business and SDS System Information

Dear Mr. Howard:

Enclosed are the Tradebe Treatment and Recycling, LLC ("TTR") response associated with the Indiana Department of Environmental Management (IDEM) request for information as outlined in your email sent to Mr. Timothy Denhof, Tradebe Midwest EHS Manager. A second TTR response sent under separate cover included process information and was deemed Confidential Business Information. Submitted with this letter is a TTR Narrative Response and information associated with the following request items:

- Number 2, SDS Degreaser product;
- Number 4.c, Char manifest; and
- Number 4.d, Char Analysis.

Should you have any questions or require additional information, please contact me at 219.397.3951 or email me at: robert.vaughn@tradebe.com.

Respectfully,
Tradebe Treatment and Recycling, LLC

Robert Vaughn
EHS Manager

Attachments

cc: Sergio Nusimovich, Tradebe
Tita Lagrimas, Tradebe
Sarah Kowalczyk, Tradebe
Timothy Denhof, Tradebe

Indiana Department of Environmental Management

John Howard Request / Tradebe Treatment and Recycling, LLC

Response Narrative

On the following pages are the Tradebe Treatment and Recycling, LLC (Tradebe) responses to Mr. John Howard's, an Indiana Department of Environmental Management (IDEM) Inspector, requests for information regarding SDS operations. Mr. Howard made the requests in the email to Timothy Denhof, Tradebe EHS Midwest Manager.

Here is the IDEM requests for information emailed to Tradebe:

1. During PM, what is done with the sludge accumulated at the bottom of OWS in SDS 1 and tank 86, in SDS 2?

2. How much and what is the final disposition of the carbon from the air emissions canisters (Tradebe assumes this relates to SDS operations)?

3. *Looking for confirmation: is the degreaser product from the SDS units sold or is it given away?*

4. Plus the documentation we talked about and you're working on:
    a. *Mass Balance of material in & out*
    b. *Quantity of "process water" to fuel: Amounts and frequency.*
    c. (Last 10) char manifests & LDRs
    d. Char TCLP analysis results. If quarterly last 4, if yearly last 4.
    e. (Last 10) Bill-of-ladings to SMS recycling (information previously provided)
    f. *SDS approval criteria*
    g. (received blank)

Items in Italics are being provided under CBI protocol.

The following pages contain the Tradebe narrative responses to the IDEM requests. Documents, when applicable, are provided as Attachments to this narrative response. Information deemed as Confidential Business Information (CBI) is submitted under a separate cover letter and follows CBI protocol.

Solid Distillation System

The Solids Distillation System (SDS) is a separation technology that processes various types of waste in multiple physical states (e.g., solid and sludge) contaminated with organic solvents and hydrocarbons. The SDS unit processes these materials in containers, following a shredding stage. SDS uses indirect heat to change the physical state of the organics along with any moisture that may be contained in the waste; the recoverable material travels along a cylindrical tube.

The processed materials dried solids, along with the recovered metal (from the containers and /or waste) exit the back end of the unit, where they are separated. The recovered organics are condensed using water. This liquid stream is also separated into an aqueous phase and an organic phase that contains organic solvents that are sold as a commercial-grade degreasing agent.

As with any separation technology, this process has a certain efficiency that varies depending on a number of characteristics of the waste stream:

- Concentration of organics
- Nature and boiling point of those organics
- Physical state
- Moisture
- Particle size

Also, a number of process parameters do influence the efficiency of the separation process:

- Residence time
- Temperature
- Vacuum

This separation process takes place in the absence of oxygen to inhibit combustion of the organic compounds. The unit operates under a nitrogen blanket to further inhibit combustion. As organic solvents are placed into a vaporized state for recovery, minimizing oxygen concentration is of the outmost importance to avoid an explosion, since the presence of organics above their ignition temperature would explode if oxygen was present at significant concentrations.

It is important to note that the thermal process is indirectly heated. This, along with the temperatures and lack of oxygen minimize product decomposition and avoid combustion.

Tradebe Responses to John Howard's request by item:

1. During PM, what is done with the sludge accumulated at the bottom of OWS in SDS 1 and tank 86, in SDS 2?

   Tradebe Response: As discussed during the IDEM site visit, during maintenance activities of the recycling equipment, material (i.e. sludge) is removed from the equipment (e.g., OWS', process water tanks; Vapor recovery units). The material removed is pumped into a tanker and taken to Area 2 tank farm and transferred into the hazardous waste fuel tanks. Please note, that Tank 86 operates under 40 CFR 262 Generator's 90-day standards.

2. How much and what is the final disposition of the carbon from the air emissions canisters (Tradebe assumes this relates to SDS operations)?

   Tradebe Response: Spent carbon that is removed from air emission canisters (i.e., carbon absorption units) is removed from the air emission canisters and is manifested off site as hazardous waste for disposal at an alternate approved facility (i.e., incineration). A total of 18,300 pounds of carbon was used from January 1, 2016 to September 30, 2016 for SDSI and SDSII operations.

3. Looking for confirmation: is the degreaser product from the SDS units sold or is it given away?

   Tradebe Response: The SDS Degreaser product recovered from the recycling activities is sold and used by various organizations for its solvent properties. Economic benefit is also generated from Tradebe's brokered refinery waste streams into ESSROC. The composition and matrix of the refinery waste, as well as increased volume of these waste streams has become increasingly difficult for ESSROC processing equipment, causing maintenance and equipment downtime which threatens the future acceptance of these waste streams. After trial loads of the SDS degreaser, downtime of the processing unit was reduced. Therefore beginning January 2017, Tradebe's refinery waste customers price will increase to reflect the use of the SDS Degreaser in this new application.

Information associated with the sale of the degreaser is deemed Confidential Business Information (CBI) and is being provided under a separate CBI submittal.

4. Plus the documentation we talked about and you're working on:
   a. Mass Balance of material in & out

      Tradebe Response: As with other distillation units, the exact mass balance varies dependent on the parameters cited above in the SDS Flow Diagram. As an example, if paints are processed, the amount of recovered solvents would be different than if debris contaminated with solvents was processed.

      The thermal process does produce cracking of hydrocarbons into smaller molecules that cannot be condensed in the gas treatment system. These lighter gases exit the condensing stage to the flare, the air pollution control unit. As mentioned in the previous section, Nitrogen, an inert gas, is used to further inhibit combustion and/or explosive conditions in the unit. This inert gas passes through the system uncondensed.

      Tradebe is providing a SDS Flow Diagram with Mass Balance data under the CBI protocol.

   b. Quantity of "process water" to fuel: Amounts and frequency.

      Tradebe Response: Tradebe is providing the amount of process water that is removed from the SDS processes for the operating year 2015 under CBI protocol. As we explained during the inspection, process water is used to cool (condense) the organic vapors and return the vapors to a liquid. The contact cooling water is recycled through closed loop equipment to lower the temperature of the contact cooling water. The recycled contact cooling water is removed from a tank during normal activities to maintain the cooling system and to allow the ongoing processing of materials with various amounts of water content. Water withdrawals from the cooling system increases during summer months due to humidity in waste material as well as in the ambient air re-condenses in the recycling units and contact cooling water equipment.

   c. (Last 10) char manifests & LDRs

      Tradebe Response: Copies of the last ten (10) shipments of char from the Tradebe facility are being provided along with the associated Land Disposal Restriction notices sent along with the manifests.

      Several waste streams processed in the SDS recycling unit contains certain materials that at the processing temperatures can be pyrolyzed to produce char (solid residue). These includes: paper, plastic, cardboard, textiles. This pyrolysis process would produce a carbonaceous material that along with other solids that cannot be vaporized, such as

silica, metal oxides, and other inert high boiling point materials, will exit the system and make up the char.

Manifest Numbers:

016085425JJK	009892800FLE	016085424JJK	009892799FLE
016085422JJK	016085423JJK	016085421JJK	009892798FLE
016085420JJK	016085419JJK		

d. Char TCLP analysis results. If quarterly last 4, if yearly last 4.

Tradebe Response: Enclosed are the two (2) most recent Tradebe char solids analysis. Char Analysis reports:

- TestAmerica, J115311-1 UDS Level 2 Report, Box 15, dated 8/10/2016
- TestAmerica, J115312-1 UDS Level 2 Report, Box 18, dated 8/10/2016

e. (Last 10) Bill-of-ladings to SMS recycling

Tradebe Response: Tradebe provided a summary of the shipments for the metal pieces (i.e., shredded drum) that are recovered and recycled from the SDS units to IDEM in a September 30, 2016 response letter, Attachment D. The Shipment summary was marked confidential business information.

f. SDS approval criteria

Tradebe Response: Tradebe is providing approval criteria for material recycled in the SDS units. The information provided includes approval letters and profiles for material received and processed in the SDS units. Since the Approval letters and profiles contain sensitive business information the documents are being provided under a separate CBI submittal.

Profile Approval data associated with profile numbers:

100124830	16020170	160165-1	03134029
1100509	1000123154	PCIX201699	1000123393

g. (received blank)

Tradebe Response: No information for item "g" was listed in the email by the IDEM.

Indiana Department of Environmental Management

John Howard Request / Tradebe Treatment and Recycling, LLC

Response Attachments

Question 3

Confirmation for Degreaser product from the SDS units

Information submitted under CBI protocol

Question 4.a

Mass Balance of material in & out

Summary submitted under CBI protocol

Question 4.b

Quantity of "process water" to fuel

Summary submitted under CBI protocol

Question 4. C

(Last 10) Char manifests & LDRs

D179 0663920 EQ/ACTION [redacted] (ADJ WT) MBE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	IND000546943	1	844-873-8733	016085425 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312
Generator's Phone: (219) 397-3951
Generator's Site Address (if different than mailing address)

D

6. Transporter 1 Company Name
~~TRADEBE TRANSPORTATION~~ LLC
U.S. EPA ID Number ~~INR000123497~~ ALR000007237

Action

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
DEARBORN, MI 48111
Facility's Phone: 734-699-6254
U.S. EPA ID Number MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 9 III RQ (D006,D007)	1	C M	27120	P	~~D004~~ ~~D005~~ ~~D008~~ D007 D008 D010
	2. 829301			25820 lbs		
	3. 90227349					
	4. 829302					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-115520-1 APPT /15 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
BOX # 019

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: ROGER BURGESS Signature: Roger Burgess Month 9 Day 21 Year 16

INT'L 16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER 17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVE OWENS Signature: Month 9 Day 21 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY 18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue 9-22-16 ☑ Partial Rejection ☐ Full Rejection
OK to partial reject 1360 lbs per Roger Burgess Manifest Reference Number: 010241906 JJK
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. H010 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: Mike Signature: Month 9 Day 23 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

9/23/16 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085425 JJK

Page - Line
1 - 01

Approval: 081104MBE

NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess **Title:** TRANS. COORDINATOR

Printed Name: ROGER BURGESS **Date:**

116520

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

Rev. 09/12

286384 - 1

680185

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 000 724 831
2. Page 1 of 1
3. Emergency Response Phone: (844) 873-8723
4. Manifest Tracking Number: 010241906 JJK

5. Generator's Name and Mailing Address: MICHIGAN DISPOSAL WASTE TREAT
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Generator's Phone: (800) 592-5463

Generator's Site Address (if different than mailing address): 4343 KENNEDY AVE
E CHICAGO, IN 46312

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRADEBE TREATMENT AND RECYCLING
4343 KENNEDY AVE
EAST CHICAGO, IN 46312
Facility's Phone: (800) 388-7242
U.S. EPA ID Number: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (barium, chromium), 9, PGIII, ERG #171	001	CM	1300	P	F001 F002 F003 D004 D005 D006
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 091104MDE / SDS RESIDUE -Metals / BOX # 19
SEE LDR FOR ADDITIONAL WASTE CODES
PARTIAL REJECTION DUE TO INABILITY TO OFFLOAD MATERIAL PER ROGER BERGESS WITH TRADEBE
ORIGINAL MANIFEST 016085425JJK

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: [signature] Signature: [signature] Month 9 Day 22 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVE OWENS Signature: [signature] Month 9 Day 22 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H070 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: Shannon Olson Signature: [signature] Month 09 Day 22 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

D71602615247 SG PPW 7/20/2016

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND000646943
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 009892800 FLE

5. Generator's Name and Mailing Address: Tradebe Treatment and Recycling LLC, 4343 Kennedy Avenue, East Chicago, IN 46312
Generator's Phone: (800) 388-7242

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services~~ US BULK TRANSPORT INC
U.S. EPA ID Number: PAD841734751S

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors Canada, Inc., 4090 Telfer Road, Corunna, ON N0H 1G0
Facility's Phone: (519) 864-1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (LEAD, CHROME), 9, PG III	1	~~Roll off~~ CM	26,000	LBS	U001 U002 U003 U004 U005 U007
	2.					
	3.					
	4.					

AOC# 12753/02/15 CN# AQ1955-15

14. Special Handling Instructions and Additional Information: 1 CH1215972 ERG#171

CHESI EPA ID NO.MIR000014530 IS ACTING AS THE PRIMARY EXPORTER ON BEHALF OF THE GENERATOR.

Box# 012

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: Roger R Dunkerss
Signature: [signature]
Month 9 Day 21 Year 16

16. International Shipments: ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Port Huron MT
Transporter signature (for exports only): [signature]
Date leaving U.S.: 9-21-16

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Douglas D Rice
Signature: [signature]
Month 9 Day 21 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H132 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: Morgan Davis
Signature: [signature]
Month 09 Day 21 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Aug 16, 2016

MANIFEST INFORMATION

Generator : Tradebe Treatment and Recycling LLC

Address: 4343 Kennedy Avenue
East Chicago,IN 46312

EPA ID #: I N D 0 0 0 6 4 6 9 4 3

Manifest Tracking Info.

Sales Order No: 1602615344

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1215973	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D004	Toxicity Characteristic for Arsenic
D005	Toxicity Characteristic for Barium
D006	Toxicity characteristic for Cadmium
D007	Toxicity Characteristic for Chromium
D008	Toxicity Characteristic for Lead
D010	Toxicity Characteristic for Selenium
D011	Toxicity Characteristic for Silver
F025	Light Ends Subcategory
K006	Anhydrous Subcategory

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction
Notification Form

Printed Date :Aug 16, 2016

D018D019D021D022D023D024D025D026D027D028D029D030D032D033D034D035D036D038D039D040D043F001F002F003F004F005F024F034K001K002K003K004K005K007K008K009K010K016K017K018K019K020K021K022K025K026K027K028K029K030K032K033K034K035K048K049K050K051K052K084K095K096K101K102K109K117K118K131K132K136K148K149K150K158U001U002U003U004U005U007U008U009U012U017U018U019U021U022U023U024U025U026U027U028U030U031U034U035U037U038U041U042U043U044U045U046U047U048U049U050U051U052U055U056U057U058U059U062U063U064U068U069U070U071U072U075U076U077U078U079U080U081U082U083U084U088U092U093U095U101U102U107U108U110U111U112U113U117U118U120U121U122U126U130U131U132U137U140U141U147U152U154U155U156U157U158U159U161U162U164U165U166U167U168U169U170U171U172U173U174U179U180U181U186U187U188U192U194U196U197U203U207U208U209U210U211U213U220U221U222U225U226U227U228U235U236U238U239U328U353U359U404	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
ACENAPHTHENE	Y	N	N
ACENAPHTHYLENE	Y	N	N
ACETONE	Y	Y	N
ANTHRACENE	Y	N	N
BROMOMETHANE	Y	N	N
CARBON DISULFIDE	Y	Y	N
CHLOROBENZENE	Y	N	N
CHLOROETHANE	Y	N	N
CHLOROMETHANE	Y	N	N
ETHYL BENZENE	N	Y	N
FLUORANTHENE	Y	N	N
FLUORENE	Y	N	N
HEXACHLOROBENZENE	Y	N	N
METHYL ETHYL KETONE	N	Y	N
METHYL ISOBUTYL KETONE	Y	Y	N
METHYLENE CHLORIDE	Y	Y	N
NAPHTHALENE	Y	N	N
PHENANTHRENE	Y	N	N
PYRENE	Y	N	N
TETRACHLOROETHYLENE	Y	Y	N
TOLUENE	Y	Y	N
VINYL CHLORIDE	Y	N	N
XYLENES (MIXED ISOMERS)	Y	Y	N

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction
Notification Form

Printed Date :Aug 26, 2016

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : [illegible] Print Name ROGER BURGESS

Title : TRANS. COORD. Date :

D172 EQ/TRADEBE HAZARDOUS MATERIALS (ADJ WT) MBE

Please print or type: (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 0 0 0 6 4 6 8 4		844-273-8723	016085424 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC,
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312 (219) 397-3951
Generator's Phone:

Generator's Site Address (if different than mailing address)

D

6. Transporter 1 Company Name: TRADEBE TRANSPORTATION LLC — U.S. EPA ID Number: INR000123497

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
BELLEVILLE, MI 48111 734-699-6254
Facility's Phone:
U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10.		12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 8 III RQ (D006,D007)	1	~~27380~~	P	D004 D005 D006 D007 D008 D010
	2. 829294		25180 ms		
	3. 90227340				
	4. 829296				

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116520-1 APPT /16 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
9-21-16 BOX # 11

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: ROGER BURGESS — Signature: Roger Burgess — Month 9 Day 21 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik — Signature: [signature] — Month 9 Day 21 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue 9-22-16 ms ☒ Partial Rejection ☐ Full Rejection
OK to partial reject 2200lbs per Roger Burgess — Manifest Reference Number: 010241867JJK

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. H070 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: Mike Severin — Signature: [signature] — Month 9 Day 22 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)
9/23/16 [initials]

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085424JUK

Page - Line
1-01 **Approval:** 081104MBE NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess **Title:** TRANS. COORDINATOR

Printed Name: ROGER BURGESS **Date:**

116520

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 000 724 831
2. Page 1 of 1
3. Emergency Response Phone: (844) 873-8723
4. Manifest Tracking Number: 010241867 JJK

5. Generator's Name and Mailing Address: MICHIGAN DISPOSAL WASTE TREAT
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Generator's Phone: (800) 592-6480

Generator's Site Address (if different than mailing address): 4343 KENNEDY AVE
E CHICAGO, IN 46312

6. Transporter 1 Company Name: TRADEBE TRANSPORATATION
U.S. EPA ID Number: INR 000 123 497

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRADEBE TREATMENT AND RECYCLING
4343 KENNEDY AVE
EAST CHICAGO, IN 46312
Facility's Phone: (800) 388-7242
U.S. EPA ID Number: IND 000 646 943

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (barium, chromium), 9, PGIII, ERG #171	001	CM	2200	P	F001 F002 F003 D004 D005 D006
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 931104MBF / SDS RESIDUE -Metal / BOX # 11
SEE LDR FOR ADDITIONAL WASTE CODES
PARTIAL REJECTION DUE TO INABILITY TO OFFLOAD MATERIAL PER ROGER BERGESS WITH TRADEBE
ORIGINAL MANIFEST 016085424JJK

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: Mike Swain
Signature: [signature]
Month 9 Day 22 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik
Signature: [signature]
Month 9 Day 22 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H070 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: Shannon Olson
Signature: [signature]
Month 09 Day 23 Year 16

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

07 16026153 SC PPW 7/20/2015

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND000646943
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 009892799 FLE

5. Generator's Name and Mailing Address:
Tradebe Treatment and Recycling LLC
4343 Kennedy Avenue
East Chicago, IN 46312
Generator's Phone: (800) 388-7242

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services, Inc.~~ USBULK TRANSPORT INC
U.S. EPA ID Number: PAD987347515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Clean Harbors Canada, Inc.
4090 Telfer Road
Corunna, ON N0N 1G0
Facility's Phone: (519) 864-1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. 8/3077, HAZARDOUS WASTE, SOLID, N.O.S., (LEAD, CHROME), 9, PG III	1	~~Roll off~~ CM (M)	24,900	LBS	U001 U002 U003 U004 U005 U007
	2.					
	3.					
	4.					

AOC# 12740/8E/15 CN# AQ19551-1

14. Special Handling Instructions and Additional Information
1. Ch1215479 ERG#171

CHESI EPA ID NO.MIR000014530 IS ACTING AS THE PRIMARY EXPORTER ON BEHALF OF THE GENERATOR.

Box 17

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: [illegible] Signature: [illegible] Month 9 Day 20 Year 16

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Port Huron MI
Transporter signature (for exports only): [illegible] DK Date leaving U.S.: 9-20-16

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Douglas D Rice Signature: [illegible] DR Month 9 Day 20 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H132 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: Morgan Davis Signature: [illegible] Month 09 Day 20 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.
Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO GENERATOR

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Aug 16, 2016

MANIFEST INFORMATION

Generator : Tradebe Treatment and Recycling LLC

Address: 4343 Kennedy Avenue
East Chicago,IN 46312

EPA ID #: I N D 0 0 0 6 4 6 9 4 3

Manifest Tracking Info.

Sales Order No: 1602615344

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1215973	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D004	Toxicity Characteristic for Arsenic
D005	Toxicity Characteristic for Barium
D006	Toxicity characteristic for Cadmium
D007	Toxicity Characteristic for Chromium
D008	Toxicity Characteristic for Lead
D010	Toxicity Characteristic for Selenium
D011	Toxicity Characteristic for Silver
F025	Light Ends Subcategory
K006	Anhydrous Subcategory

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Aug 16, 2016

D018D019D021D022D023D024D025D026D027D028D029D030D032D033D034D035D036D038D039D040D043F001F002F003F004F005F024F034K001K002K003K004K005K007K008K009K010K016K017K018K019K020K021K022K025K026K027K028K029K030K032K033K034K035K048K049K050K051K052K084K095K096K101K102K109K117K118K131K132K136K148K149K150K158U001U002U003U004U005U007U008U009U012U017U018U019U021U022U023U024U025U026U027U028U030U031U034U035U037U038U041U042U043U044U045U046U047U048U049U050U051U052U055U056U057U058U059U062U063U064U068U069U070U071U072U075U076U077U078U079U080U081U082U083U084U088U092U093U095U101U102U107U108U110U111U112U113U117U118U120U121U122U126U130U131U132U137U140U141U147U152U154U155U156U157U158U159U161U162U164U165U166U167U168U169U170U171U172U173U174U179U180U181U186U187U188U192U194U196U197U203U207U208U209U210U211U213U220U221U222U225U226U227U228U235U236U238U239U328U353U359U404	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
ACENAPHTHENE	Y	N	N
ACENAPHTHYLENE	Y	N	N
ACETONE	Y	Y	N
ANTHRACENE	Y	N	N
BROMOMETHANE	Y	N	N
CARBON DISULFIDE	Y	Y	N
CHLOROBENZENE	Y	N	N
CHLOROETHANE	Y	N	N
CHLOROMETHANE	Y	N	N
ETHYL BENZENE	N	Y	N
FLUORANTHENE	Y	N	N
FLUORENE	Y	N	N
HEXACHLOROBENZENE	Y	N	N
METHYL ETHYL KETONE	N	Y	N
METHYL ISOBUTYL KETONE	Y	Y	N
METHYLENE CHLORIDE	Y	Y	N
NAPHTHALENE	Y	N	N
PHENANTHRENE	Y	N	N
PYRENE	Y	N	N
TETRACHLOROETHYLENE	Y	Y	N
TOLUENE	Y	Y	N
VINYL CHLORIDE	Y	N	N
XYLENES (MIXED ISOMERS)	Y	Y	N

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction
Notification Form

Printed Date :Aug 26, 2016

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : [illegible] Print Name ROGER BURGESS

Title : TRANS. COORD. Date :

D172 EQ/ACTION HAZARDOUS MATERIALS (ADJ WT) MBE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	IND000646843	1	844-873-8723	016085422 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312 (219) 397-3951
Generator's Phone:

Generator's Site Address (if different than mailing address)

D
AIR00007237

6. Transporter 1 Company Name
~~TRADEBE TRANSPORTATION LLC~~ Action

U.S. EPA ID Number
~~INR000123497~~

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
BELLEVILLE, MI 48111 734-699-6254
Facility's Phone:

U.S. EPA ID Number
MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 8 III RQ. (D006, D007)	1	C M	~~34460~~ 27260 C.G.	P	D004 D005 D006 D007 D008 D010
	2. 829274					
	3. 90227333					
	4. 829278					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116205-1 APPT /16 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
BOX # 010

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: ROGER BURGESS Signature: Roger Burgess Month 9 Day 20 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVE Owens Signature: [signature] Month 9 Day 20 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☑ Partial Rejection ☐ Full Rejection
O.K. to partial reject per Roger Burgess 7200lbs 9-21-16 C.G. 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. H020 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: [signature] Signature: [signature] Month 9 Day 21 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. 9/23/16 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085H82 JJK

Page - Line
1-01 Approval: 081104MBE NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess Title: TRANS. COORDINATOR

Printed Name: ROGER BURGESS Date:

116205

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 000 724 821
2. Page 1 of 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 010241907 JJK

5. Generator's Name and Mailing Address: MICHIGAN DISPOSAL WASTE TREA[illegible]
[illegible] SERVICE DRIVE
BELLEVILLE, MI 48111
Generator's Phone: (800) 592-5489

Generator's Site Address (if different than mailing address): [illegible] KENNEDY AVE
E CHICAGO, IN 46312

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRADEBE TREATMENT AND RECYCLING
[illegible] KENNEDY AVE
EAST CHICAGO, IN 46312
Facility's Phone: (800) 388-724[illegible]
U.S. EPA ID Number: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. [illegible] Hazardous waste solid n.o.s. (barium chromium) 8 PGIII ERG #171	001	CM	7200	P	[illegible]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
[illegible] RESIDUE - Metals / BOX 7 [illegible] 10
[illegible] ADDITIONAL WASTE CODES
PARTIAL REJECTION DUE TO INABILITY TO OFFLOAD MATERIAL PER ROGER BERGER [illegible]
[illegible] MANIFEST 016085422 JJK

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: Chris Grissom
Signature: [signature]
Month 9 Day 21 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dave Owens
Signature: [signature]
Month 9 Day 21 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. [illegible] 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: Shannon Olson
Signature: [signature]
Month 09 Day 21 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

D172 EQ/TRADEBE (WT-ol) MBE

HAZARDOUS MATERIALS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	INDOOO6416843	1	844-873-8723	016085423 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312
Generator's Phone: (219) 397-3951

Generator's Site Address (if different than mailing address)

D

6. Transporter 1 Company Name
TRADEBE TRANSPORTATION LLC — U.S. EPA ID Number: INR000123497

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
BELLEVILLE, MI 48111
Facility's Phone: 734-699-6254 — U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 9 III RQ (D006,D007)	1	C M	27340	P	D004 D005 D006 D007 D008 D010
	2. 829287					
	3. 90227336					
	4. 829292					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116520-1 APPT /16 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
9-20-16 BOX # 2525

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: ROGER BURGESS — Signature: Roger Burgess — Month 9 Day 20 Year 16

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik — Signature: [signature] — Month 9 Day 20 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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

DESIGNATED FACILITY

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H070 2. 9/23/16 C70 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: Mike Swan — Signature: [signature] — Month 9 Day 26 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085423 JOK

Page - Line
1 - 01

Approval: 081104MBE

NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess **Title:** TRANS. COORDINATOR

Printed Name: ROGER BURGESS **Date:**

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

D172 EQ TRADEBE HAZARDOUS MATERIALS WT ok MBE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: IND000546043	2. Page 1 of 1	3. Emergency Response Phone: 844-873-8723
4. Manifest Tracking Number: 016085421 JJK			

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312 (219) 397-3951
Generator's Phone:

Generator's Site Address (if different than mailing address): D

6. Transporter 1 Company Name: TRADEBE TRANSPORTATION LLC — U.S. EPA ID Number: INR000123497

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
48350 NORTH SERVICE ROAD
BELLEVILLE, MI 48111 734-699-8254
Facility's Phone: — U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 8 III RQ (D006,D007)	1	C M	28300	P	D004 D005 D006 D007 D008 D010
	2. 828277					
	3. 90226771					
	4. 828278					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116205-1 APPT /16 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
9-20-14 BOX # 7255

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: ROGER BURGESS — Signature: Roger Burgess — Month 9 Day 20 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik — Signature: [signature] — Month 9 Day 20 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H070 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: [signature] — Signature: [signature] — Month 9 Day 20 Year 16

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

9/21/16 PLD

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085421 JJK

Page - Line
1-01 Approval: 081104MBE NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess Title: TRANS. COORDINATOR

Printed Name: ROGER BURGESS Date:

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

D7 160261[illegible]344 [illegible] SC PPW 7/20/2015

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND000645943
2. Page 1 of [illegible]
3. Emergency Response Phone: (800) 483 3738
4. Manifest Tracking Number: 009892798 FLE

5. Generator's Name and Mailing Address: Trouble Treatment and Recycling LLC
4343 Kennedy Avenue
East Chicago, IN 46312
(800) 388-7242
Generator's Phone:

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services Inc.~~ US BULK TRANSPORT INC
U.S. EPA ID Number: IRD 057347251

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors Canada, Inc.
4090 Telfer Road
Corunna, ON N0N 1G0
Facility's Phone: (519) 864 1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (LEAD, CHROME), 9, PG III	1	BOX OFF	3740	LBS	D011 D002 D003 D004 D005 D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information AOC# 12-0486-15 CN# AG 19510-3
1. CH1235[illegible] EPG# 171
CHESI EPA ID NO.MIR000014530
IS ACTING AS THE PRIMARY
EXPORTER ON BEHALF
OF THE GENERATOR.
TRK 356 BOX 13

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: [illegible] Signature: [illegible] Month 9 Day 19 Year 16

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Port Huron MI
Transporter signature (for exports only): [illegible] Date leaving U.S.: 9-19-16

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Douglas D Eile Signature: [illegible] Month 9 Day 19 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H132 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: Morgan Davis Signature: [illegible] Month 09 Day 19 Year 16

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO GENERATOR

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Aug 16, 2016

MANIFEST INFORMATION

Generator : Tradebe Treatment and Recycling LLC

Address: 4343 Kennedy Avenue
East Chicago,IN 46312

EPA ID #: I N D 0 0 0 6 4 6 9 4 3

Manifest Tracking Info.

Sales Order No: 1602615344

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1215973	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D004	Toxicity Characteristic for Arsenic
D005	Toxicity Characteristic for Barium
D006	Toxicity characteristic for Cadmium
D007	Toxicity Characteristic for Chromium
D008	Toxicity Characteristic for Lead
D010	Toxicity Characteristic for Selenium
D011	Toxicity Characteristic for Silver
F025	Light Ends Subcategory
K006	Anhydrous Subcategory

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction
Notification Form

Printed Date :Aug 16, 2016

D018D019D021D022D023D024D025D026D027D028D029D030D032D033D034D035D036D038D039D040D043F001F002F003F004F005F024F034K001K002K003K004K005K007K008K009K010K016K017K018K019K020K021K022K025K026K027K028K029K030K032K033K034K035K048K049K050K051K052K084K095K096K101K102K109K117K118K131K132K136K148K149K150K158U001U002U003U004U005U007U008U009U012U017U018U019U021U022U023U024U025U026U027U028U030U031U034U035U037U038U041U042U043U044U045U046U047U048U049U050U051U052U055U056U057U058U059U062U063U064U068U069U070U071U072U075U076U077U078U079U080U081U082U083U084U088U092U093U095U101U102U107U108U110U111U112U113U117U118U120U121U122U126U130U131U132U137U140U141U147U152U154U155U156U157U158U159U161U162U164U165U166U167U168U169U170U171U172U173U174U179U180U181U186U187U188U192U194U196U197U203U207U208U209U210U211U213U220U221U222U225U226U227U228U235U236U238U239U328U353U359U404	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
ACENAPHTHENE	Y	N	N
ACENAPHTHYLENE	Y	N	N
ACETONE	Y	Y	N
ANTHRACENE	Y	N	N
BROMOMETHANE	Y	N	N
CARBON DISULFIDE	Y	Y	N
CHLOROBENZENE	Y	N	N
CHLOROETHANE	Y	N	N
CHLOROMETHANE	Y	N	N
ETHYL BENZENE	N	Y	N
FLUORANTHENE	Y	N	N
FLUORENE	Y	N	N
HEXACHLOROBENZENE	Y	N	N
METHYL ETHYL KETONE	N	Y	N
METHYL ISOBUTYL KETONE	Y	Y	N
METHYLENE CHLORIDE	Y	Y	N
NAPHTHALENE	Y	N	N
PHENANTHRENE	Y	N	N
PYRENE	Y	N	N
TETRACHLOROETHYLENE	Y	Y	N
TOLUENE	Y	Y	N
VINYL CHLORIDE	Y	N	N
XYLENES (MIXED ISOMERS)	Y	Y	N

CleanHarbors ENVIRONMENTAL SERVICES®

Land Disposal Restriction
Notification Form

Printed Date :Aug 26, 2016

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : [illegible] Print Name ROGER BURGESS

Title : TRANS. COORD. Date :

0172 EQ/ACTION HAZARDOUS MATERIALS (ADJ WT) MBE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND000546843
2. Page 1 of 1
3. Emergency Response Phone: 844-873-8723
4. Manifest Tracking Number: 016085420 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4343 KENNEDY AVENUE
EAST CHICAGO, IN 46312 (219) 397-3951
Generator's Phone:

Generator's Site Address (if different than mailing address): D

6. Transporter 1 Company Name: TRADEBE TRANSPORTATION LLC Action
U.S. EPA ID Number: ALR000007237 ~~INR000123487~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
BELLEVILLE, MI 48111 734-699-6254
Facility's Phone:
U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 8,III RQ (D006,D007)	1	C M	~~36100~~	P	D004 D005 D006 D007 D008 D010
	2. 829263			25700 MS		
	3. 90227330					
	4. 829269					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116205-1 APPT /16 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
BOX# 014

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: ROGER BURGESS
Signature: Roger Burgess
Month 9 Day 19 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVE Owens
Signature: [signature]
Month 9 Day 19 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month 9 Day 19 Year 16

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue 9-20-16 MS ☒ Partial Rejection ☐ Full Rejection
OK to partial reject 10400 lbs per Roger Burgess
Manifest Reference Number: 0102418882JK

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. H020 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: [signature]
Signature: [signature]
Month 9 Day 20 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

9/23/16 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085420 JJK

Page - Line
1 - 01

Approval: 081104MBE

NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess **Title:** TRANS. COORDINATOR

Printed Name: ROGER BURGESS **Date:**

116205

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 000 724 831
2. Page 1 of: 1
3. Emergency Response Phone: (811) 878-8723
4. Manifest Tracking Number: 010241888 JJK

5. Generator's Name and Mailing Address: MICHIGAN DISPOSAL WASTE TREA
4000 N 1-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Generator's Site Address (if different than mailing address): 4343 KENNEDY AVE
EAST CHICAGO, IN 46312
Generator's Phone: (800) 592-6380

6. Transporter 1 Company Name: ARTRAN
U.S. EPA ID Number: ALR 000 007 337

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRADEBE TREATMENT AND RECYCLING
4343 KENNEDY AVE
EAST CHICAGO, IN 46312
U.S. EPA ID Number: IND 000 646 933
Facility's Phone: (800) 388-7242

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit WT/Vol.	13. Waste Codes
X	1. RQ NA3077 Hazardous waste solid, n.o.s. (barium, chromium), 9, PGIII, ERG #171	001	CBT	10400	P	D005 D008 D032
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
14
USE MISC. BOS RESIDUE - Metal - BOX 4
SEE LOR FOR ADDITIONAL WASTE CODES
FOR DIRECTIONS DUE TO HAZARDS TO THE ENVIRONMENT PER ROAD EMERGENCY GUIDE
ORIGINAL MANIFEST 016085420JJK

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: Mike Swanby
Signature:
Month Day Year: 9 20 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dave Owens
Signature:
Month Day Year: 9 20 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H020 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: Shannon Olson
Signature:
Month Day Year: 09 20 16

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type: (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 016085419 JJK

5. Generator's Name and Mailing Address
TRADEBE TREATMENT and RECYCLING, LLC.
4342 KENNEDY AVENUE
EAST CHICAGO,IN 46312
Generator's Phone: (219) 397-3951

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: TRADEBE TRANSPORTATION LLC
U.S. EPA ID Number: INRD00123497

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL
49350 NORTH SERVICE ROAD
BELLEVILLE,MI 48111
Facility's Phone: 734-699-8254
U.S. EPA ID Number: MID000724031

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 HAZARDOUS WASTE, SOLID, NOS (BARIUM, CHROME) 9 (I) RQ (D006,D007)	1	C M	~~26700~~	P	D004 D005 D006 D007 D008 D010
	2.			3560		
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) ERG:171 081104MBE SDS RESIDUE CON# 500-116205-1 APPT 716 @ 1700 LDR/ADDL CODES E.R.P. TRADEBE
9-19-16
BOX # 017

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: Roger K Burgess
Signature: [signature]
Month 9 Day 19 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik
Signature: [signature]
Month 9 Day 19 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue 9-19-16 [illegible] ☒ Partial Rejection ☐ Full Rejection
OK to partial reject 22920 lbs [illegible]
Manifest Reference Number: 010241605 JJK

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
RECEIVED SEP 26 2016
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H070
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: [signature]
Signature: [signature]
Month 9 Day 19 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: TRADEBE TREATMENT AND RECYCLING, LLC
4343 KENNEDY AVE.

U.S. EPA ID No.: IND000646943

Manifest: 016085419 JJK

Page - Line
1 - 01 Approval: 081104MBE NWW

Waste Code(s): D004 D005 D006 D007 D008 D010 D011 D016 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D032 D033 D034 D035 D036 D038 D039 D040 D043 F001 F002 F003 F004 F005 F006 F024 F025 F034 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K015 K016 K017 K018 K019 K020 K021 K022 K025 K026 K027 K028 K029 K030 K032 K033 K034 K035 K048 K049 K050 K051 K052 K084 K095 K096 K101 K102 K109 K117 K118 K131 K132 K136 K148 K149 K150 U001 U002 U003 U004 U005 U007 U008 U009 U010 U012 U017 U018 U019 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U034 U035 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U055 U056 U057 U058 U059 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U088 U092 U093 U094 U095 U097 U101 U102 U103 U107 U108 U110 U111 U112 U113 U116 U117 U118 U119 U120 U121 U122 U123 U126 U130 U131 U132 U137 U138 U140 U141 U142 U143 U147 U149 U150 U152 U154 U155 U156 U157 U158 U159 U160 U161 U162 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U176 U177 U178 U179 U180 U181 U182 U186 U187 U188 U191 U192 U194 U196 U197 U200 U201 U203 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U218 U219 U220 U221 U222 U225 U226 U227 U228 U235 U236 U237 U238 U239 U248 U328 U353 U359 U364 U367 U404

Hazardous Constituents: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium , 209 Lead, 211 Mercury (all Others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

Subcategory(s): None

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.
This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Roger Burgess Title: TRANS. COORDINATOR

Printed Name: ROGER BURGESS Date:

116205

For questions regarding this form, please call EQ's Customer Service Department at (800) 592-5489.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID 000 724 831
2. Page 1 of: 1
3. Emergency Response Phone: (203) 238-8745
4. Manifest Tracking Number: 010241605 JJK

5. Generator's Name and Mailing Address: MICHIGAN DISPOSAL WASTE TREATMENT
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Generator's Phone: (800) 592-5460

Generator's Site Address (if different than mailing address):
4343 KENNEDY AVE
E CHICAGO, IN 46312

6. Transporter 1 Company Name: TRADEBE TRANSPORTATION
U.S. EPA ID Number: IND 000 123 497

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRADEBE TREATMENT AND RECYCLING
4343 KENNEDY AVE
EAST CHICAGO IN 46312
Facility's Phone: (800) 388-7242
U.S. EPA ID Number: IND 000 646 943

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (barium, chromium), 9, PGIII, ERG #171	001	CM	22920	P	F001 F002 F004 D004 D005 D006
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 081104MBF / SDS RESIDUE -Metals / BOX #: 17
SEE LDR FOR ADDITIONAL WASTE CODES
PARTIAL REJECTION DUE TO INABILITY TO OFFLOAD MATERIAL PER ROGER BURGESS WITH TRADEBE
ORIGINAL MANIFEST 016085419JJK

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: Mike Swain
Signature:
Month 9 Day 19 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter signature (for exports only):
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John M Tomsik
Signature:
Month 9 Day 19 Year 16
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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. H070 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: Shannon Olson
Signature:
Month 09 Day 20 Year 16

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Question 4.d

Char TCLP analysis results

TestAmerica, J115311-1 UDS Level 2 Report,

Box 15, dated 8/10/2016

TestAmerica, J115312-1 UDS Level 2 Report,

Box 18, dated 8/10/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-115311-1
Client Project/Site: CHAR Box 15

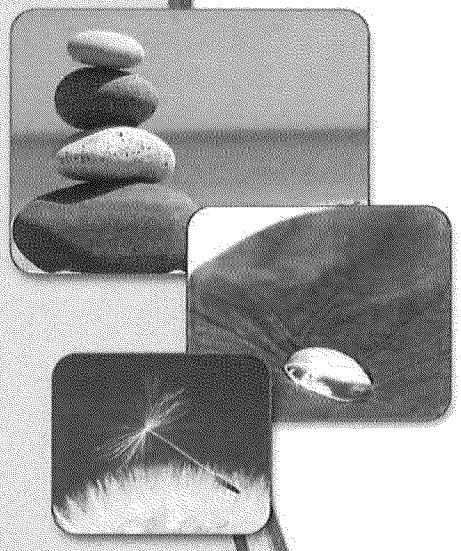
For:
Tradebe Treatment and Recycling, LLC
1433 E. 83rd Ave
Suite 200
Merrillville, Indiana 46410

Attn: Mr. Michael Davia

Robin M Kintz

Authorized for release by:
8/10/2016 2:53:54 PM

Robin Kintz, Project Manager II
(708)534-5200
robinm.kintz@testamericainc.com



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Receipt Checklists 19

Case Narrative

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Job ID: 500-115311-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-115311-1

Comments
No additional comments.

Receipt
The sample was received on 8/4/2016 10:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3541: 3541 8270 Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: 500-115311-1. The reporting limits (RLs) are elevated proportionately.

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

Method Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-115311-1	CHAR #15	Solid	08/02/16 09:00	08/04/16 10:40

5

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Client Sample ID: CHAR #15

Date Collected: 08/02/16 09:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115311-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17000		25	15	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Bromoform	ND		100	48	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Bromomethane	ND		200	80	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
2-Butanone (MEK)	8400		500	210	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Carbon disulfide	92	J	200	80	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Carbon tetrachloride	ND		100	38	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Chlorobenzene	ND		100	39	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Chlorodibromomethane	ND		100	49	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Chloroethane	150		100	50	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Chloroform	52	J	100	37	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Chloromethane	160		100	32	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
cis-1,2-Dichloroethene	ND		100	41	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
cis-1,3-Dichloropropene	ND		100	42	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Cyclohexane	ND		100	48	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Dichlorobromomethane	ND		100	37	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,1-Dichloroethane	ND		100	41	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,2-Dichloroethane	ND		100	39	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,1-Dichloroethene	ND		100	39	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,2-Dichloropropane	ND		100	43	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Ethylbenzene	4400		25	18	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
2-Hexanone	ND		500	160	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Isopropylbenzene	540		100	38	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Methyl acetate	680		500	200	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Methylcyclohexane	ND		100	32	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Methylene Chloride	960		500	160	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
methyl isobutyl ketone	800		500	220	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Methyl tert-butyl ether	ND		100	39	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Styrene	1600		100	39	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,1,2,2-Tetrachloroethane	ND		100	40	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Tetrachloroethene	530		100	37	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Toluene	17000		25	15	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
trans-1,2-Dichloroethene	ND		100	35	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
trans-1,3-Dichloropropene	ND		100	36	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,1,1-Trichloroethane	ND		100	38	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
1,1,2-Trichloroethane	ND		100	35	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Trichloroethene	ND		50	16	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Trichlorofluoromethane	ND		100	43	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Vinyl acetate	ND		200	90	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Vinyl chloride	56		50	26	ug/Kg		08/05/16 02:56	08/08/16 14:22	50
Xylenes, Total	12000		50	22	ug/Kg		08/05/16 02:56	08/08/16 14:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*	*08/05/16 02:56*	*08/08/16 14:22*	*50*
Dibromofluoromethane	*90*		*70 - 120*	*08/05/16 02:56*	*08/08/16 14:22*	*50*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*	*08/05/16 02:56*	*08/08/16 14:22*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*08/05/16 02:56*	*08/08/16 14:22*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	27000		5000	1700	ug/Kg		08/05/16 02:56	08/08/16 14:50	500

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		71 - 120	08/05/16 02:56	08/08/16 14:50	500
Dibromofluoromethane	92		70 - 120	08/05/16 02:56	08/08/16 14:50	500
1,2-Dichloroethane-d4 (Surr)	93		71 - 127	08/05/16 02:56	08/08/16 14:50	500
Toluene-d8 (Surr)	104		75 - 120	08/05/16 02:56	08/08/16 14:50	500

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		92	17	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Acenaphthylene	49	J	92	12	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Anthracene	170		92	15	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzo[a]anthracene	110		92	12	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzo[a]pyrene	ND		92	18	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzo[b]fluoranthene	68	J	92	20	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzo[g,h,i]perylene	ND		92	30	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzo[k]fluoranthene	67	J	92	27	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Benzyl alcohol	ND		1900	920	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Bis(2-chloroethoxy)methane	ND		470	95	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Bis(2-chloroethyl)ether	ND		470	140	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Bis(2-ethylhexyl) phthalate	1800		470	170	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Bromophenyl phenyl ether	ND		470	120	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Butyl benzyl phthalate	ND		470	180	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Carbazole	ND		470	230	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Chloroaniline	ND		1900	440	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Chloro-3-methylphenol	ND		920	320	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Chloronaphthalene	ND		470	100	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Chlorophenol	ND		470	160	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Chlorophenyl phenyl ether	ND		470	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Chrysene	250		92	25	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Dibenz(a,h)anthracene	ND		92	18	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Dibenzofuran	ND		470	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
1,2-Dichlorobenzene	ND		470	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
1,3-Dichlorobenzene	ND		470	100	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
1,4-Dichlorobenzene	ND		470	120	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
3,3'-Dichlorobenzidine	ND		470	130	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4-Dichlorophenol	ND		920	220	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Diethyl phthalate	ND		470	160	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4-Dimethylphenol	1000		920	350	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Dimethyl phthalate	ND		470	120	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Di-n-butyl phthalate	180	J	470	140	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4,6-Dinitro-2-methylphenol	ND		1900	750	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4-Dinitrophenol	ND		1900	1600	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4-Dinitrotoluene	ND		470	150	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,6-Dinitrotoluene	ND		470	180	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Di-n-octyl phthalate	ND		470	150	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Fluoranthene	160		92	17	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Fluorene	230		92	13	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Hexachlorobenzene	ND		190	21	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Hexachlorobutadiene	ND		470	150	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Hexachlorocyclopentadiene	ND		1900	530	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Hexachloroethane	ND		470	140	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Indeno[1,2,3-cd]pyrene	ND		92	24	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Isophorone	520		470	100	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Methylnaphthalene	640		190	17	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Methylphenol	2700		470	150	ug/Kg		08/08/16 17:48	08/09/16 18:30	1

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Client Sample ID: CHAR #15

Date Collected: 08/02/16 09:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115311-1
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	2400		470	150	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Naphthalene	1200		92	14	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Nitroaniline	ND		470	120	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
3-Nitroaniline	ND		920	290	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Nitroaniline	ND		920	390	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Nitrobenzene	ND		92	23	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2-Nitrophenol	ND		920	220	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
4-Nitrophenol	ND		1900	880	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
N-Nitrosodimethylamine	ND		1900	740	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
N-Nitrosodi-n-propylamine	ND		190	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
N-Nitrosodiphenylamine	ND		470	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,2'-oxybis[1-chloropropane]	ND		470	110	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Pentachlorophenol	ND		1900	1500	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Phenanthrene	560		92	13	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
Pyrene	470		92	18	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
1,2,4-Trichlorobenzene	ND		470	100	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4,5-Trichlorophenol	ND		920	210	ug/Kg		08/08/16 17:48	08/09/16 18:30	1
2,4,6-Trichlorophenol	ND		920	320	ug/Kg		08/08/16 17:48	08/09/16 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 115*	*08/08/16 17:48*	*08/09/16 18:30*	*1*
2-Fluorophenol	*80*		*40 - 130*	*08/08/16 17:48*	*08/09/16 18:30*	*1*
Nitrobenzene-d5	*66*		*33 - 124*	*08/08/16 17:48*	*08/09/16 18:30*	*1*
Phenol-d5	*68*		*36 - 123*	*08/08/16 17:48*	*08/09/16 18:30*	*1*
Terphenyl-d14	*123*		*25 - 150*	*08/08/16 17:48*	*08/09/16 18:30*	*1*
2,4,6-Tribromophenol	*84*		*25 - 130*	*08/08/16 17:48*	*08/09/16 18:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	8300		930	410	ug/Kg		08/08/16 17:48	08/10/16 12:01	2

Definitions/Glossary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
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)

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-346883/6
Matrix: Solid
Analysis Batch: 346883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	1.7	ug/Kg			08/08/16 09:25	1
Benzene	ND		0.25	0.15	ug/Kg			08/08/16 09:25	1
Bromoform	ND		1.0	0.48	ug/Kg			08/08/16 09:25	1
Bromomethane	ND		2.0	0.80	ug/Kg			08/08/16 09:25	1
2-Butanone (MEK)	ND		5.0	2.1	ug/Kg			08/08/16 09:25	1
Carbon disulfide	ND		2.0	0.80	ug/Kg			08/08/16 09:25	1
Carbon tetrachloride	ND		1.0	0.38	ug/Kg			08/08/16 09:25	1
Chlorobenzene	ND		1.0	0.39	ug/Kg			08/08/16 09:25	1
Chlorodibromomethane	ND		1.0	0.49	ug/Kg			08/08/16 09:25	1
Chloroethane	ND		1.0	0.50	ug/Kg			08/08/16 09:25	1
Chloroform	ND		1.0	0.37	ug/Kg			08/08/16 09:25	1
Chloromethane	ND		1.0	0.32	ug/Kg			08/08/16 09:25	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/Kg			08/08/16 09:25	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/Kg			08/08/16 09:25	1
Cyclohexane	ND		1.0	0.48	ug/Kg			08/08/16 09:25	1
Dichlorobromomethane	ND		1.0	0.37	ug/Kg			08/08/16 09:25	1
1,1-Dichloroethane	ND		1.0	0.41	ug/Kg			08/08/16 09:25	1
1,2-Dichloroethane	ND		1.0	0.39	ug/Kg			08/08/16 09:25	1
1,1-Dichloroethene	ND		1.0	0.39	ug/Kg			08/08/16 09:25	1
1,2-Dichloropropane	ND		1.0	0.43	ug/Kg			08/08/16 09:25	1
Ethylbenzene	ND		0.25	0.18	ug/Kg			08/08/16 09:25	1
2-Hexanone	ND		5.0	1.6	ug/Kg			08/08/16 09:25	1
Isopropylbenzene	ND		1.0	0.38	ug/Kg			08/08/16 09:25	1
Methyl acetate	ND		5.0	2.0	ug/Kg			08/08/16 09:25	1
Methylcyclohexane	ND		1.0	0.32	ug/Kg			08/08/16 09:25	1
Methylene Chloride	ND		5.0	1.6	ug/Kg			08/08/16 09:25	1
methyl isobutyl ketone	ND		5.0	2.2	ug/Kg			08/08/16 09:25	1
Methyl tert-butyl ether	ND		1.0	0.39	ug/Kg			08/08/16 09:25	1
Styrene	ND		1.0	0.39	ug/Kg			08/08/16 09:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg			08/08/16 09:25	1
Tetrachloroethene	ND		1.0	0.37	ug/Kg			08/08/16 09:25	1
Toluene	ND		0.25	0.15	ug/Kg			08/08/16 09:25	1
trans-1,2-Dichloroethene	ND		1.0	0.35	ug/Kg			08/08/16 09:25	1
trans-1,3-Dichloropropene	ND		1.0	0.36	ug/Kg			08/08/16 09:25	1
1,1,1-Trichloroethane	ND		1.0	0.38	ug/Kg			08/08/16 09:25	1
1,1,2-Trichloroethane	ND		1.0	0.35	ug/Kg			08/08/16 09:25	1
Trichloroethene	ND		0.50	0.16	ug/Kg			08/08/16 09:25	1
Trichlorofluoromethane	ND		1.0	0.43	ug/Kg			08/08/16 09:25	1
Vinyl acetate	ND		2.0	0.90	ug/Kg			08/08/16 09:25	1
Vinyl chloride	ND		0.50	0.26	ug/Kg			08/08/16 09:25	1
Xylenes, Total	ND		0.50	0.22	ug/Kg			08/08/16 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*71 - 120*		*08/08/16 09:25*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*08/08/16 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*71 - 127*		*08/08/16 09:25*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/08/16 09:25*	*1*

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-346883/5
Matrix: Solid
Analysis Batch: 346883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	37.5		ug/Kg		75	37 - 141
Benzene	50.0	45.6		ug/Kg		91	70 - 125
Bromoform	50.0	44.4		ug/Kg		89	54 - 128
Bromomethane	50.0	38.7		ug/Kg		77	40 - 150
2-Butanone (MEK)	50.0	37.4		ug/Kg		75	52 - 142
Carbon disulfide	50.0	47.6		ug/Kg		95	68 - 125
Carbon tetrachloride	50.0	45.8		ug/Kg		92	70 - 125
Chlorobenzene	50.0	46.8		ug/Kg		94	70 - 125
Chlorodibromomethane	50.0	41.2		ug/Kg		82	66 - 125
Chloroethane	50.0	45.9		ug/Kg		92	60 - 139
Chloroform	50.0	44.4		ug/Kg		89	70 - 125
Chloromethane	50.0	57.3		ug/Kg		115	60 - 140
cis-1,2-Dichloroethene	50.0	46.5		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	45.3		ug/Kg		91	70 - 125
Dichlorobromomethane	50.0	40.9		ug/Kg		82	70 - 125
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	70 - 125
1,2-Dichloroethane	50.0	41.3		ug/Kg		83	70 - 125
1,1-Dichloroethene	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dichloropropane	50.0	47.3		ug/Kg		95	70 - 125
Ethylbenzene	50.0	48.8		ug/Kg		98	70 - 125
2-Hexanone	50.0	41.3		ug/Kg		83	49 - 139
Isopropylbenzene	50.0	48.6		ug/Kg		97	70 - 125
Methylene Chloride	50.0	44.7		ug/Kg		89	68 - 125
methyl isobutyl ketone	50.0	42.4		ug/Kg		85	47 - 140
Methyl tert-butyl ether	50.0	40.3		ug/Kg		81	67 - 125
Styrene	50.0	44.6		ug/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.4		ug/Kg		87	68 - 125
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 125
Toluene	50.0	47.6		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	70 - 125
trans-1,3-Dichloropropene	50.0	42.9		ug/Kg		86	70 - 125
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	50.0	44.1		ug/Kg		88	70 - 125
Trichloroethene	50.0	48.4		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	48.0		ug/Kg		96	60 - 126
Vinyl acetate	50.0	40.0		ug/Kg		80	30 - 160
Vinyl chloride	50.0	51.7		ug/Kg		103	70 - 126
Xylenes, Total	100	92.1		ug/Kg		92	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 120*
Dibromofluoromethane	*89*		*70 - 120*
1,2-Dichloroethane-d4 (Surr)	*85*		*71 - 127*
Toluene-d8 (Surr)	*106*		*75 - 120*

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-347029/1-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		33	6.0	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Acenaphthylene	ND		33	4.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Anthracene	ND		33	5.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[a]anthracene	ND		33	4.5	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[a]pyrene	ND		33	6.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[b]fluoranthene	ND		33	7.2	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[g,h,i]perylene	ND		33	11	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[k]fluoranthene	ND		33	9.8	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzyl alcohol	ND		670	330	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-chloroethoxy)methane	ND		170	34	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-chloroethyl)ether	ND		170	50	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-ethylhexyl) phthalate	ND		170	61	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Bromophenyl phenyl ether	ND		170	44	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Butyl benzyl phthalate	ND		170	63	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Carbazole	ND		170	83	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chloroaniline	ND		670	160	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chloro-3-methylphenol	ND		330	110	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Chloronaphthalene	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Chlorophenol	ND		170	57	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chlorophenyl phenyl ether	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Chrysene	ND		33	9.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dibenz(a,h)anthracene	ND		33	6.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dibenzofuran	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,2-Dichlorobenzene	ND		170	40	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,3-Dichlorobenzene	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,4-Dichlorobenzene	ND		170	43	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3,3'-Dichlorobenzidine	ND		170	47	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dichlorophenol	ND		330	79	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Diethyl phthalate	ND		170	56	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dimethylphenol	ND		330	130	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dimethyl phthalate	ND		170	43	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Di-n-butyl phthalate	ND		170	51	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4,6-Dinitro-2-methylphenol	ND		670	270	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dinitrophenol	ND		670	590	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dinitrotoluene	ND		170	53	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,6-Dinitrotoluene	ND		170	65	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Di-n-octyl phthalate	ND		170	54	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Fluoranthene	ND		33	6.2	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Fluorene	ND		33	4.7	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorobenzene	ND		67	7.7	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorobutadiene	ND		170	52	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorocyclopentadiene	ND		670	190	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachloroethane	ND		170	51	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Indeno[1,2,3-cd]pyrene	ND		33	8.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Isophorone	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Methylnaphthalene	ND		67	6.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Methylphenol	ND		170	53	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3 & 4 Methylphenol	ND		170	55	ug/Kg		08/08/16 17:48	08/09/16 11:22	1

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-347029/1-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		33	5.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Nitroaniline	ND		170	45	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3-Nitroaniline	ND		330	100	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Nitroaniline	ND		330	140	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Nitrobenzene	ND		33	8.3	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Nitrophenol	ND		330	79	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Nitrophenol	ND		670	320	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodimethylamine	ND		670	260	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodi-n-propylamine	ND		67	41	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodiphenylamine	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,2'-oxybis[1-chloropropane]	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Pentachlorophenol	ND		670	530	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Phenanthrene	ND		33	4.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Phenol	ND		170	74	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Pyrene	ND		33	6.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,2,4-Trichlorobenzene	ND		170	36	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4,5-Trichlorophenol	ND		330	76	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4,6-Trichlorophenol	ND		330	110	ug/Kg		08/08/16 17:48	08/09/16 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 115*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
2-Fluorophenol	*92*		*40 - 130*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Phenol-d5	*78*		*36 - 123*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Terphenyl-d14	*90*		*25 - 150*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
2,4,6-Tribromophenol	*80*		*25 - 130*	*08/08/16 17:48*	*08/09/16 11:22*	*1*

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1330	843		ug/Kg		63	52 - 113
Acenaphthylene	1330	974		ug/Kg		73	57 - 116
Anthracene	1330	1030		ug/Kg		77	57 - 118
Benzo[a]anthracene	1330	1060		ug/Kg		79	63 - 115
Benzo[a]pyrene	1330	1160		ug/Kg		87	64 - 122
Benzo[b]fluoranthene	1330	1160		ug/Kg		87	61 - 123
Benzo[g,h,i]perylene	1330	1350		ug/Kg		101	55 - 134
Benzo[k]fluoranthene	1330	1060		ug/Kg		79	59 - 125
Benzyl alcohol	1330	1130		ug/Kg		85	10 - 130
Bis(2-chloroethoxy)methane	1330	949		ug/Kg		71	59 - 116
Bis(2-chloroethyl)ether	1330	806		ug/Kg		60	53 - 116
Bis(2-ethylhexyl) phthalate	1330	920		ug/Kg		69	62 - 117
4-Bromophenyl phenyl ether	1330	1070		ug/Kg		80	61 - 124
Butyl benzyl phthalate	1330	995		ug/Kg		75	61 - 115
Carbazole	1330	1400		ug/Kg		105	65 - 137
4-Chloroaniline	1330	1330		ug/Kg		100	10 - 150

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	1330	1020		ug/Kg		77	59 - 117
2-Chloronaphthalene	1330	946		ug/Kg		71	57 - 112
2-Chlorophenol	1330	1030		ug/Kg		77	57 - 117
4-Chlorophenyl phenyl ether	1330	867		ug/Kg		65	61 - 111
Chrysene	1330	1160		ug/Kg		87	63 - 118
Dibenz(a,h)anthracene	1330	1290		ug/Kg		97	61 - 134
Dibenzofuran	1330	929		ug/Kg		70	59 - 110
1,2-Dichlorobenzene	1330	938		ug/Kg		70	56 - 110
1,3-Dichlorobenzene	1330	951		ug/Kg		71	56 - 110
1,4-Dichlorobenzene	1330	948		ug/Kg		71	57 - 110
3,3'-Dichlorobenzidine	1330	1230		ug/Kg		93	40 - 110
2,4-Dichlorophenol	1330	1120		ug/Kg		84	61 - 116
Diethyl phthalate	1330	847		ug/Kg		64	58 - 117
2,4-Dimethylphenol	1330	1050		ug/Kg		78	50 - 120
Dimethyl phthalate	1330	997		ug/Kg		75	60 - 112
Di-n-butyl phthalate	1330	936		ug/Kg		70	61 - 123
4,6-Dinitro-2-methylphenol	2670	996		ug/Kg		37	10 - 110
2,4-Dinitrophenol	2670	812		ug/Kg		30	10 - 110
2,4-Dinitrotoluene	1330	1020		ug/Kg		77	59 - 119
2,6-Dinitrotoluene	1330	1100		ug/Kg		82	57 - 118
Di-n-octyl phthalate	1330	1010		ug/Kg		76	58 - 129
Fluoranthene	1330	1080		ug/Kg		81	61 - 124
Fluorene	1330	887		ug/Kg		67	56 - 115
Hexachlorobenzene	1330	1240		ug/Kg		93	62 - 126
Hexachlorobutadiene	1330	1140		ug/Kg		85	56 - 120
Hexachlorocyclopentadiene	1330	548	J	ug/Kg		41	10 - 116
Hexachloroethane	1330	940		ug/Kg		71	54 - 111
Indeno[1,2,3-cd]pyrene	1330	1630		ug/Kg		122	50 - 149
Isophorone	1330	846		ug/Kg		63	54 - 120
2-Methylnaphthalene	1330	1040		ug/Kg		78	55 - 120
2-Methylphenol	1330	1050		ug/Kg		79	53 - 123
3 & 4 Methylphenol	1330	1050		ug/Kg		78	55 - 124
Naphthalene	1330	1010		ug/Kg		76	58 - 116
2-Nitroaniline	1330	888		ug/Kg		67	52 - 121
3-Nitroaniline	1330	1160		ug/Kg		87	20 - 144
4-Nitroaniline	1330	1240		ug/Kg		93	55 - 146
Nitrobenzene	1330	930		ug/Kg		70	56 - 121
2-Nitrophenol	1330	1160		ug/Kg		87	58 - 121
4-Nitrophenol	2670	1280		ug/Kg		48	32 - 123
N-Nitrosodimethylamine	1330	682		ug/Kg		51	30 - 134
N-Nitrosodi-n-propylamine	1330	914		ug/Kg		69	56 - 119
N-Nitrosodiphenylamine	1330	1060		ug/Kg		80	62 - 117
2,2'-oxybis[1-chloropropane]	1330	785		ug/Kg		59	22 - 133
Pentachlorophenol	2670	1920		ug/Kg		72	12 - 116
Phenanthrene	1330	1030		ug/Kg		78	58 - 125
Phenol	1330	1020		ug/Kg		76	55 - 118
Pyrene	1330	1120		ug/Kg		84	60 - 115
1,2,4-Trichlorobenzene	1330	1090		ug/Kg		81	60 - 116

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			1330	1050		ug/Kg		79	42 - 119		
2,4,6-Trichlorophenol			1330	1020		ug/Kg		77	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*42 - 115*
2-Fluorophenol	*89*		*40 - 130*
Nitrobenzene-d5	*70*		*33 - 124*
Phenol-d5	*72*		*36 - 123*
Terphenyl-d14	*81*		*25 - 150*
2,4,6-Tribromophenol	*83*		*25 - 130*

Lab Chronicle

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Client Sample ID: CHAR #15

Date Collected: 08/02/16 09:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115311-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			346660	08/05/16 02:56	WRE	TAL CHI
Total/NA	Analysis	8260B		50	346883	08/08/16 14:22	PMF	TAL CHI
Total/NA	Prep	5030B	DL		346660	08/05/16 02:56	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	500	346883	08/08/16 14:50	PMF	TAL CHI
Total/NA	Prep	3541			347029	08/08/16 17:48	DEA	TAL CHI
Total/NA	Analysis	8270D		1	347068	08/09/16 18:30	AJD	TAL CHI
Total/NA	Prep	3541	DL		347029	08/08/16 17:48	DEA	TAL CHI
Total/NA	Analysis	8270D	DL	2	347248	08/10/16 12:01	AJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 15

TestAmerica Job ID: 500-115311-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-16 *
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-16 *
South Carolina	State Program	4	77001	04-30-16 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16 *
Wyoming	State Program	8	8TMS-Q	04-30-17

* Certification renewal pending - certification considered valid.

Test America Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Robin Kintz	Carrier Tracking No(s):	COC No: 510-15406-4803.1
Client Contact: Mr. Michael Davia	Phone:	E-Mail: robin.kintz@testamericainc.com		Page:
Company: Tradebe Treatment and Recycling, LLC				Job #: 500-115311 Kgs
Address: 4343 Kennedy Drive	Due Date Requested:			
City: East Chicago	TAT Requested (days):			
State, Zip: IN, 46312				
Phone: 219-397-3951(Tel)	PO #:			
Email: mike.davia@tradebe.com 500-115311 COC	WO #:			
Project Name: Char Analysis	Project #: 50008251			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: 8/4/16

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - SVOC Standard List	8260 - VOC Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
CHAR #15	8/2/16	9:00	G	S						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Peter Plankis	Date/Time: 8/4/2016 9:35am	Company: Tradebe	Received by: [signature] Date/Time: 8-4-16 0935 Company: Test America
Relinquished by: [signature]	Date/Time: 8-4-16 ~~0930~~ 0945	Company: Test America	Received by: [signature] Date/Time: 8/4/16 0945 Company: Test America
Relinquished by: [signature]	Date/Time: 8/4/16 1040	Company: TA	Received by: Sherri Scott Date/Time: 8/4/16 1040 Company: TA-CHI

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.1

8/10/2016

EPA-R5-2018-009810_0000183

Login Sample Receipt Checklist

Client: Tradebe Treatment and Recycling, LLC

Job Number: 500-115311-1

Login Number: 115311
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-115312-1
Client Project/Site: CHAR Box 18

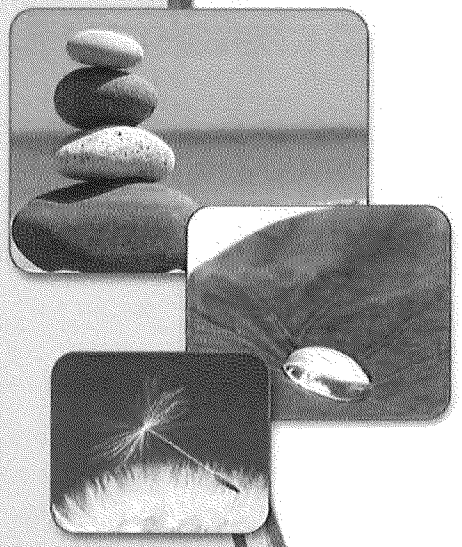
For:
Tradebe Treatment and Recycling, LLC
1433 E. 83rd Ave
Suite 200
Merrillville, Indiana 46410

Attn: Mr. Michael Davia

Robin M Kintz

Authorized for release by:
8/10/2016 2:54:51 PM

Robin Kintz, Project Manager II
(708)534-5200
robinm.kintz@testamericainc.com



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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: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Job ID: 500-115312-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-115312-1

Comments
No additional comments.

Receipt
The sample was received on 8/4/2016 10:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3541: 3541 8270: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 500-115312-1. The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-115312-1	CHAR #18	Solid	08/03/16 18:00	08/04/16 10:40

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Client Sample ID: CHAR #18

Date Collected: 08/03/16 18:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115312-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5100		13	7.3	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Bromoform	ND		50	24	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Bromomethane	ND		100	40	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
2-Butanone (MEK)	1600		250	110	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Carbon disulfide	56	J	100	40	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Carbon tetrachloride	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Chlorobenzene	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Chlorodibromomethane	ND		50	24	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Chloroethane	77		50	25	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Chloroform	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Chloromethane	ND		50	16	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
cis-1,2-Dichloroethene	ND		50	20	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
cis-1,3-Dichloropropene	ND		50	21	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Cyclohexane	ND		50	24	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Dichlorobromomethane	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,1-Dichloroethane	ND		50	21	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,2-Dichloroethane	ND		50	20	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,1-Dichloroethene	ND		50	20	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,2-Dichloropropane	ND		50	21	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Ethylbenzene	1100		13	9.2	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
2-Hexanone	ND		250	78	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Isopropylbenzene	130		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Methyl acetate	140	J	250	100	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Methylcyclohexane	ND		50	16	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Methylene Chloride	400		250	82	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
methyl isobutyl ketone	ND		250	110	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Methyl tert-butyl ether	ND		50	20	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Styrene	440		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,1,2,2-Tetrachloroethane	ND		50	20	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Tetrachloroethene	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
trans-1,2-Dichloroethene	ND		50	18	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
trans-1,3-Dichloropropene	ND		50	18	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,1,1-Trichloroethane	ND		50	19	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
1,1,2-Trichloroethane	ND		50	18	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Trichloroethene	ND		25	8.2	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Trichlorofluoromethane	ND		50	21	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Vinyl acetate	ND		100	45	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Vinyl chloride	67		25	13	ug/Kg		08/05/16 02:57	08/07/16 23:30	50
Xylenes, Total	2500		25	11	ug/Kg		08/05/16 02:57	08/07/16 23:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*	*08/05/16 02:57*	*08/07/16 23:30*	*50*
Dibromofluoromethane	*89*		*70 - 120*	*08/05/16 02:57*	*08/07/16 23:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*80*		*71 - 127*	*08/05/16 02:57*	*08/07/16 23:30*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*08/05/16 02:57*	*08/07/16 23:30*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14000		2500	870	ug/Kg		08/05/16 02:57	08/07/16 23:56	500
Toluene	11000		130	74	ug/Kg		08/05/16 02:57	08/07/16 23:56	500

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		71 - 120	08/05/16 02:57	08/07/16 23:56	500
Dibromofluoromethane	89		70 - 120	08/05/16 02:57	08/07/16 23:56	500
1,2-Dichloroethane-d4 (Surr)	80		71 - 127	08/05/16 02:57	08/07/16 23:56	500
Toluene-d8 (Surr)	96		75 - 120	08/05/16 02:57	08/07/16 23:56	500

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130		95	17	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Acenaphthylene	160		95	13	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Anthracene	180		95	16	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzo[a]anthracene	77	J	95	13	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzo[a]pyrene	100		95	18	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzo[b]fluoranthene	77	J	95	21	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzo[g,h,i]perylene	ND		95	31	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzo[k]fluoranthene	48	J	95	28	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Benzyl alcohol	ND		1900	950	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Bis(2-chloroethoxy)methane	ND		480	98	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Bis(2-chloroethyl)ether	ND		480	140	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Bis(2-ethylhexyl) phthalate	590		480	170	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Bromophenyl phenyl ether	ND		480	130	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Butyl benzyl phthalate	ND		480	180	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Carbazole	ND		480	240	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Chloroaniline	ND		1900	450	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Chloro-3-methylphenol	ND		950	330	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Chloronaphthalene	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Chlorophenol	ND		480	160	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Chlorophenyl phenyl ether	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Chrysene	220		95	26	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Dibenz(a,h)anthracene	ND		95	18	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Dibenzofuran	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
1,2-Dichlorobenzene	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
1,3-Dichlorobenzene	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
1,4-Dichlorobenzene	ND		480	120	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
3,3'-Dichlorobenzidine	ND		480	130	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4-Dichlorophenol	ND		950	230	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Diethyl phthalate	ND		480	160	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4-Dimethylphenol	ND		950	360	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Dimethyl phthalate	ND		480	120	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Di-n-butyl phthalate	ND		480	150	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4,6-Dinitro-2-methylphenol	ND		1900	770	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4-Dinitrophenol	ND		1900	1700	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4-Dinitrotoluene	ND		480	150	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,6-Dinitrotoluene	ND		480	190	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Di-n-octyl phthalate	ND		480	160	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Fluoranthene	ND		95	18	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Fluorene	410		95	13	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Hexachlorobenzene	33	J	190	22	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Hexachlorobutadiene	ND		480	150	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Hexachlorocyclopentadiene	ND		1900	550	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Hexachloroethane	ND		480	150	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Indeno[1,2,3-cd]pyrene	ND		95	25	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Isophorone	150	J	480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Methylnaphthalene	1700		190	18	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Methylphenol	1000		480	150	ug/Kg		08/08/16 17:48	08/09/16 18:57	1

Client Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Client Sample ID: CHAR #18

Date Collected: 08/03/16 18:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115312-1

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	660		480	160	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Naphthalene	2500		95	15	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Nitroaniline	ND		480	130	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
3-Nitroaniline	ND		950	300	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Nitroaniline	ND		950	400	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Nitrobenzene	ND		95	24	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2-Nitrophenol	ND		950	230	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
4-Nitrophenol	ND		1900	910	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
N-Nitrosodimethylamine	ND		1900	760	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
N-Nitrosodiphenylamine	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,2'-oxybis[1-chloropropane]	ND		480	110	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Pentachlorophenol	ND		1900	1500	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Phenanthrene	620		95	13	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Phenol	4600		480	210	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
Pyrene	500		95	19	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
1,2,4-Trichlorobenzene	ND		480	100	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4,5-Trichlorophenol	ND		950	220	ug/Kg		08/08/16 17:48	08/09/16 18:57	1
2,4,6-Trichlorophenol	ND		950	330	ug/Kg		08/08/16 17:48	08/09/16 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 115*	*08/08/16 17:48*	*08/09/16 18:57*	*1*
2-Fluorophenol	*81*		*40 - 130*	*08/08/16 17:48*	*08/09/16 18:57*	*1*
Nitrobenzene-d5	*67*		*33 - 124*	*08/08/16 17:48*	*08/09/16 18:57*	*1*
Phenol-d5	*67*		*36 - 123*	*08/08/16 17:48*	*08/09/16 18:57*	*1*
Terphenyl-d14	*117*		*25 - 150*	*08/08/16 17:48*	*08/09/16 18:57*	*1*
2,4,6-Tribromophenol	*94*		*25 - 130*	*08/08/16 17:48*	*08/09/16 18:57*	*1*

Definitions/Glossary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
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)

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-346853/7
Matrix: Solid
Analysis Batch: 346853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	1.7	ug/Kg			08/07/16 20:26	1
Benzene	ND		0.25	0.15	ug/Kg			08/07/16 20:26	1
Bromoform	ND		1.0	0.48	ug/Kg			08/07/16 20:26	1
Bromomethane	ND		2.0	0.80	ug/Kg			08/07/16 20:26	1
2-Butanone (MEK)	ND		5.0	2.1	ug/Kg			08/07/16 20:26	1
Carbon disulfide	ND		2.0	0.80	ug/Kg			08/07/16 20:26	1
Carbon tetrachloride	ND		1.0	0.38	ug/Kg			08/07/16 20:26	1
Chlorobenzene	ND		1.0	0.39	ug/Kg			08/07/16 20:26	1
Chlorodibromomethane	ND		1.0	0.49	ug/Kg			08/07/16 20:26	1
Chloroethane	ND		1.0	0.50	ug/Kg			08/07/16 20:26	1
Chloroform	ND		1.0	0.37	ug/Kg			08/07/16 20:26	1
Chloromethane	ND		1.0	0.32	ug/Kg			08/07/16 20:26	1
cis-1,2-Dichloroethene	ND		1.0	0.41	ug/Kg			08/07/16 20:26	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/Kg			08/07/16 20:26	1
Cyclohexane	ND		1.0	0.48	ug/Kg			08/07/16 20:26	1
Dichlorobromomethane	ND		1.0	0.37	ug/Kg			08/07/16 20:26	1
1,1-Dichloroethane	ND		1.0	0.41	ug/Kg			08/07/16 20:26	1
1,2-Dichloroethane	ND		1.0	0.39	ug/Kg			08/07/16 20:26	1
1,1-Dichloroethene	ND		1.0	0.39	ug/Kg			08/07/16 20:26	1
1,2-Dichloropropane	ND		1.0	0.43	ug/Kg			08/07/16 20:26	1
Ethylbenzene	ND		0.25	0.18	ug/Kg			08/07/16 20:26	1
2-Hexanone	ND		5.0	1.6	ug/Kg			08/07/16 20:26	1
Isopropylbenzene	ND		1.0	0.38	ug/Kg			08/07/16 20:26	1
Methyl acetate	ND		5.0	2.0	ug/Kg			08/07/16 20:26	1
Methylcyclohexane	ND		1.0	0.32	ug/Kg			08/07/16 20:26	1
Methylene Chloride	ND		5.0	1.6	ug/Kg			08/07/16 20:26	1
methyl isobutyl ketone	ND		5.0	2.2	ug/Kg			08/07/16 20:26	1
Methyl tert-butyl ether	ND		1.0	0.39	ug/Kg			08/07/16 20:26	1
Styrene	ND		1.0	0.39	ug/Kg			08/07/16 20:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg			08/07/16 20:26	1
Tetrachloroethene	ND		1.0	0.37	ug/Kg			08/07/16 20:26	1
Toluene	ND		0.25	0.15	ug/Kg			08/07/16 20:26	1
trans-1,2-Dichloroethene	ND		1.0	0.35	ug/Kg			08/07/16 20:26	1
trans-1,3-Dichloropropene	ND		1.0	0.36	ug/Kg			08/07/16 20:26	1
1,1,1-Trichloroethane	ND		1.0	0.38	ug/Kg			08/07/16 20:26	1
1,1,2-Trichloroethane	ND		1.0	0.35	ug/Kg			08/07/16 20:26	1
Trichloroethene	ND		0.50	0.16	ug/Kg			08/07/16 20:26	1
Trichlorofluoromethane	ND		1.0	0.43	ug/Kg			08/07/16 20:26	1
Vinyl acetate	ND		2.0	0.90	ug/Kg			08/07/16 20:26	1
Vinyl chloride	ND		0.50	0.26	ug/Kg			08/07/16 20:26	1
Xylenes, Total	ND		0.50	0.22	ug/Kg			08/07/16 20:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 120*		*08/07/16 20:26*	*1*
Dibromofluoromethane	*90*		*70 - 120*		*08/07/16 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*71 - 127*		*08/07/16 20:26*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/07/16 20:26*	*1*

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-346853/4
Matrix: Solid
Analysis Batch: 346853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	42.1		ug/Kg		84	37 - 141
Benzene	50.0	46.0		ug/Kg		92	70 - 125
Bromoform	50.0	42.1		ug/Kg		84	54 - 128
Bromomethane	50.0	39.8		ug/Kg		80	40 - 150
2-Butanone (MEK)	50.0	40.6		ug/Kg		81	52 - 142
Carbon disulfide	50.0	46.6		ug/Kg		93	68 - 125
Carbon tetrachloride	50.0	41.7		ug/Kg		83	70 - 125
Chlorobenzene	50.0	45.2		ug/Kg		90	70 - 125
Chlorodibromomethane	50.0	40.1		ug/Kg		80	66 - 125
Chloroethane	50.0	40.9		ug/Kg		82	60 - 139
Chloroform	50.0	40.6		ug/Kg		81	70 - 125
Chloromethane	50.0	45.4		ug/Kg		91	60 - 140
cis-1,2-Dichloroethene	50.0	45.6		ug/Kg		91	70 - 125
cis-1,3-Dichloropropene	50.0	40.9		ug/Kg		82	70 - 125
Dichlorobromomethane	50.0	39.2		ug/Kg		78	70 - 125
1,1-Dichloroethane	50.0	44.8		ug/Kg		90	70 - 125
1,2-Dichloroethane	50.0	39.1		ug/Kg		78	70 - 125
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	70 - 125
1,2-Dichloropropane	50.0	46.7		ug/Kg		93	70 - 125
Ethylbenzene	50.0	47.7		ug/Kg		95	70 - 125
2-Hexanone	50.0	38.6		ug/Kg		77	49 - 139
Isopropylbenzene	50.0	46.9		ug/Kg		94	70 - 125
Methylene Chloride	50.0	45.7		ug/Kg		91	68 - 125
methyl isobutyl ketone	50.0	40.0		ug/Kg		80	47 - 140
Methyl tert-butyl ether	50.0	40.7		ug/Kg		81	67 - 125
Styrene	50.0	45.0		ug/Kg		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.7		ug/Kg		81	68 - 125
Tetrachloroethene	50.0	54.4		ug/Kg		109	70 - 125
Toluene	50.0	45.8		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	70 - 125
trans-1,3-Dichloropropene	50.0	38.8		ug/Kg		78	70 - 125
1,1,1-Trichloroethane	50.0	43.2		ug/Kg		86	70 - 125
1,1,2-Trichloroethane	50.0	40.5		ug/Kg		81	70 - 125
Trichloroethene	50.0	48.0		ug/Kg		96	70 - 125
Trichlorofluoromethane	50.0	47.7		ug/Kg		95	60 - 126
Vinyl acetate	50.0	39.2		ug/Kg		78	30 - 160
Vinyl chloride	50.0	47.8		ug/Kg		96	70 - 126
Xylenes, Total	100	87.9		ug/Kg		88	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*71 - 120*
Dibromofluoromethane	*88*		*70 - 120*
1,2-Dichloroethane-d4 (Surr)	*77*		*71 - 127*
Toluene-d8 (Surr)	*97*		*75 - 120*

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-347029/1-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		33	6.0	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Acenaphthylene	ND		33	4.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Anthracene	ND		33	5.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[a]anthracene	ND		33	4.5	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[a]pyrene	ND		33	6.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[b]fluoranthene	ND		33	7.2	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[g,h,i]perylene	ND		33	11	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzo[k]fluoranthene	ND		33	9.8	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Benzyl alcohol	ND		670	330	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-chloroethoxy)methane	ND		170	34	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-chloroethyl)ether	ND		170	50	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Bis(2-ethylhexyl) phthalate	ND		170	61	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Bromophenyl phenyl ether	ND		170	44	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Butyl benzyl phthalate	ND		170	63	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Carbazole	ND		170	83	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chloroaniline	ND		670	160	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chloro-3-methylphenol	ND		330	110	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Chloronaphthalene	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Chlorophenol	ND		170	57	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Chlorophenyl phenyl ether	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Chrysene	ND		33	9.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dibenz(a,h)anthracene	ND		33	6.4	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dibenzofuran	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,2-Dichlorobenzene	ND		170	40	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,3-Dichlorobenzene	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,4-Dichlorobenzene	ND		170	43	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3,3'-Dichlorobenzidine	ND		170	47	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dichlorophenol	ND		330	79	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Diethyl phthalate	ND		170	56	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dimethylphenol	ND		330	130	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Dimethyl phthalate	ND		170	43	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Di-n-butyl phthalate	ND		170	51	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4,6-Dinitro-2-methylphenol	ND		670	270	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dinitrophenol	ND		670	590	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4-Dinitrotoluene	ND		170	53	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,6-Dinitrotoluene	ND		170	65	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Di-n-octyl phthalate	ND		170	54	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Fluoranthene	ND		33	6.2	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Fluorene	ND		33	4.7	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorobenzene	ND		67	7.7	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorobutadiene	ND		170	52	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachlorocyclopentadiene	ND		670	190	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Hexachloroethane	ND		170	51	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Indeno[1,2,3-cd]pyrene	ND		33	8.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Isophorone	ND		170	37	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Methylnaphthalene	ND		67	6.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Methylphenol	ND		170	53	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3 & 4 Methylphenol	ND		170	55	ug/Kg		08/08/16 17:48	08/09/16 11:22	1

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-347029/1-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 347029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		33	5.1	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Nitroaniline	ND		170	45	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
3-Nitroaniline	ND		330	100	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Nitroaniline	ND		330	140	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Nitrobenzene	ND		33	8.3	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2-Nitrophenol	ND		330	79	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
4-Nitrophenol	ND		670	320	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodimethylamine	ND		670	260	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodi-n-propylamine	ND		67	41	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
N-Nitrosodiphenylamine	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,2'-oxybis[1-chloropropane]	ND		170	39	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Pentachlorophenol	ND		670	530	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Phenanthrene	ND		33	4.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Phenol	ND		170	74	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
Pyrene	ND		33	6.6	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
1,2,4-Trichlorobenzene	ND		170	36	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4,5-Trichlorophenol	ND		330	76	ug/Kg		08/08/16 17:48	08/09/16 11:22	1
2,4,6-Trichlorophenol	ND		330	110	ug/Kg		08/08/16 17:48	08/09/16 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 115*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
2-Fluorophenol	*92*		*40 - 130*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Phenol-d5	*78*		*36 - 123*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
Terphenyl-d14	*90*		*25 - 150*	*08/08/16 17:48*	*08/09/16 11:22*	*1*
2,4,6-Tribromophenol	*80*		*25 - 130*	*08/08/16 17:48*	*08/09/16 11:22*	*1*

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1330	843		ug/Kg		63	52 - 113
Acenaphthylene	1330	974		ug/Kg		73	57 - 116
Anthracene	1330	1030		ug/Kg		77	57 - 118
Benzo[a]anthracene	1330	1060		ug/Kg		79	63 - 115
Benzo[a]pyrene	1330	1160		ug/Kg		87	64 - 122
Benzo[b]fluoranthene	1330	1160		ug/Kg		87	61 - 123
Benzo[g,h,i]perylene	1330	1350		ug/Kg		101	55 - 134
Benzo[k]fluoranthene	1330	1060		ug/Kg		79	59 - 125
Benzyl alcohol	1330	1130		ug/Kg		85	10 - 130
Bis(2-chloroethoxy)methane	1330	949		ug/Kg		71	59 - 116
Bis(2-chloroethyl)ether	1330	806		ug/Kg		60	53 - 116
Bis(2-ethylhexyl) phthalate	1330	920		ug/Kg		69	62 - 117
4-Bromophenyl phenyl ether	1330	1070		ug/Kg		80	61 - 124
Butyl benzyl phthalate	1330	995		ug/Kg		75	61 - 115
Carbazole	1330	1400		ug/Kg		105	65 - 137
4-Chloroaniline	1330	1330		ug/Kg		100	10 - 150

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	1330	1020		ug/Kg		77	59 - 117
2-Chloronaphthalene	1330	946		ug/Kg		71	57 - 112
2-Chlorophenol	1330	1030		ug/Kg		77	57 - 117
4-Chlorophenyl phenyl ether	1330	867		ug/Kg		65	61 - 111
Chrysene	1330	1160		ug/Kg		87	63 - 118
Dibenz(a,h)anthracene	1330	1290		ug/Kg		97	61 - 134
Dibenzofuran	1330	929		ug/Kg		70	59 - 110
1,2-Dichlorobenzene	1330	938		ug/Kg		70	56 - 110
1,3-Dichlorobenzene	1330	951		ug/Kg		71	56 - 110
1,4-Dichlorobenzene	1330	948		ug/Kg		71	57 - 110
3,3'-Dichlorobenzidine	1330	1230		ug/Kg		93	40 - 110
2,4-Dichlorophenol	1330	1120		ug/Kg		84	61 - 116
Diethyl phthalate	1330	847		ug/Kg		64	58 - 117
2,4-Dimethylphenol	1330	1050		ug/Kg		78	50 - 120
Dimethyl phthalate	1330	997		ug/Kg		75	60 - 112
Di-n-butyl phthalate	1330	936		ug/Kg		70	61 - 123
4,6-Dinitro-2-methylphenol	2670	996		ug/Kg		37	10 - 110
2,4-Dinitrophenol	2670	812		ug/Kg		30	10 - 110
2,4-Dinitrotoluene	1330	1020		ug/Kg		77	59 - 119
2,6-Dinitrotoluene	1330	1100		ug/Kg		82	57 - 118
Di-n-octyl phthalate	1330	1010		ug/Kg		76	58 - 129
Fluoranthene	1330	1080		ug/Kg		81	61 - 124
Fluorene	1330	887		ug/Kg		67	56 - 115
Hexachlorobenzene	1330	1240		ug/Kg		93	62 - 126
Hexachlorobutadiene	1330	1140		ug/Kg		85	56 - 120
Hexachlorocyclopentadiene	1330	548	J	ug/Kg		41	10 - 116
Hexachloroethane	1330	940		ug/Kg		71	54 - 111
Indeno[1,2,3-cd]pyrene	1330	1630		ug/Kg		122	50 - 149
Isophorone	1330	846		ug/Kg		63	54 - 120
2-Methylnaphthalene	1330	1040		ug/Kg		78	55 - 120
2-Methylphenol	1330	1050		ug/Kg		79	53 - 123
3 & 4 Methylphenol	1330	1050		ug/Kg		78	55 - 124
Naphthalene	1330	1010		ug/Kg		76	58 - 116
2-Nitroaniline	1330	888		ug/Kg		67	52 - 121
3-Nitroaniline	1330	1160		ug/Kg		87	20 - 144
4-Nitroaniline	1330	1240		ug/Kg		93	55 - 146
Nitrobenzene	1330	930		ug/Kg		70	56 - 121
2-Nitrophenol	1330	1160		ug/Kg		87	58 - 121
4-Nitrophenol	2670	1280		ug/Kg		48	32 - 123
N-Nitrosodimethylamine	1330	682		ug/Kg		51	30 - 134
N-Nitrosodi-n-propylamine	1330	914		ug/Kg		69	56 - 119
N-Nitrosodiphenylamine	1330	1060		ug/Kg		80	62 - 117
2,2'-oxybis[1-chloropropane]	1330	785		ug/Kg		59	22 - 133
Pentachlorophenol	2670	1920		ug/Kg		72	12 - 116
Phenanthrene	1330	1030		ug/Kg		78	58 - 125
Phenol	1330	1020		ug/Kg		76	55 - 118
Pyrene	1330	1120		ug/Kg		84	60 - 115
1,2,4-Trichlorobenzene	1330	1090		ug/Kg		81	60 - 116

QC Sample Results

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-347029/2-A
Matrix: Solid
Analysis Batch: 347068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			1330	1050		ug/Kg		79	42 - 119		
2,4,6-Trichlorophenol			1330	1020		ug/Kg		77	50 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*42 - 115*
2-Fluorophenol	*89*		*40 - 130*
Nitrobenzene-d5	*70*		*33 - 124*
Phenol-d5	*72*		*36 - 123*
Terphenyl-d14	*81*		*25 - 150*
2,4,6-Tribromophenol	*83*		*25 - 130*

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Lab Chronicle

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Client Sample ID: CHAR #18

Date Collected: 08/03/16 18:00
Date Received: 08/04/16 10:40

Lab Sample ID: 500-115312-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			346660	08/05/16 02:57	WRE	TAL CHI
Total/NA	Analysis	8260B		50	346853	08/07/16 23:30	PMF	TAL CHI
Total/NA	Prep	5030B	DL		346660	08/05/16 02:57	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	500	346853	08/07/16 23:56	PMF	TAL CHI
Total/NA	Prep	3541			347029	08/08/16 17:48	DEA	TAL CHI
Total/NA	Analysis	8270D		1	347068	08/09/16 18:57	AJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Tradebe Treatment and Recycling, LLC
Project/Site: CHAR Box 18

TestAmerica Job ID: 500-115312-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-16 *
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-16 *
South Carolina	State Program	4	77001	04-30-16 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16 *
Wyoming	State Program	8	8TMS-Q	04-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Robin Kintz	Carrier Tracking No(s):	COC No: 510-15406-4803.1
Client Contact: Mr. Michael Davia	Phone:	E-Mail: robin.kintz@testamericainc.com		Page:
Company: Tradebe Treatment and Recycling, LLC				Job #: 500-115312
Address: 4343 Kennedy Drive	Due Date Requested:			
City: East Chicago	TAT Requested (days):			
State, Zip: IN, 46312				
Phone: 219-397-3951(Tel)	PO #:			
Email: mike.davia@tradebe.com	WO #:			
Project Name: Char Analysis	Project #: 50008251			
Site:	SSOW#:			

500-115312 COC

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - SVOC Standard List	8260 - VOC Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
CHAR #18	8/3/16	6:00pm	G	S						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Peter Plankis	8/4/2016 9:35am	Tradebe	[illegible]	8-4-16 0935	Test America
[illegible]	8-4-16 0945	Test America	[illegible]	8/4/16 0945	Test America
[illegible]	8/4/16 1040	TA	Steve Scott	8/4/16 1040	TA-CHI

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.1

8/10/2016

EPA-R5-2018-009810_0000183

Login Sample Receipt Checklist

Client: Tradebe Treatment and Recycling, LLC

Job Number: 500-115312-1

Login Number: 115312
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Question 4.e

(Last 10) Bill-of-ladings to SMS recycling

(information submitted on September 30, 2016)

Question 4.e

(Last 10) Bill-of-ladings to SMS recycling

(information submitted on September 30, 2016)

Tradebe provided a summary of the shipments for the metal pieces (i.e., shredded drum) recovered from the SDS units to IDEM in a September 30, 2016 response letter, Attachment D. The Shipment summary was marked confidential business information.

Question 4.f

SDS approval criteria

Submitted under CBI protocol