Memorandum

July 22, 2016

To:	Nate Nemani (U.S. EPA)	Ref. No.:	058502
From:	J.E.P. John-eric Pardys/kf/17		
cc:	Dave Favero (RACER)		

Subject: **Transformer Pad Excavation Verification Sampling Results**
Saginaw Nodular Industrial Land, 2100 Veterans Memorial Parkway, Saginaw, MI

The following memorandum presents the results of the transformer pad excavation verification sampling conducted as part the on-going Waste Water Treatment Plant Area (WWTP) demolition activities at Revitalizing Auto Community Environmental Response's (RACER's) Saginaw Nodular Industrial Land (Site) in Saginaw, Michigan.

The following files were prepared in support of this memorandum and are herein attached.

Table 1 – Analytical Results Summary

Figure 1 – Soil Investigative Locations

Attachment A – Disposal Manifests

Attachment B - Analytical Report

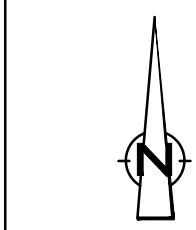
As part of the pre-demolition inspection conducted in the fall of 2015, Bierlein Companies Inc. (Bierlein) (selected demolition contractor) identified that two inactive transformers associated with the WWTP were damaged and as a result leaked oil onto the transformer pad. The damage to the transformers is suspected to have been caused by trespassing metal scrappers and as a result up to approximately 160 gallons of oil leaked from the transformers onto the concrete pad as evidenced by staining. Prior to decommissioning the transformers, Bierlein collected a sample of the oil from each of the transformers, and of the stained concrete and submitted the samples to the laboratory for analysis of PCBs. The results of the transformer oil analysis were 18 parts per million (ppm) and 33 ppm PCBs and the results of the stained concrete was non-detect for PCBs. Following the demolition, removal, and proper disposal of the transformers, the 10 feet (ft) by 30 ft concrete pad, and adjacent materials by Bierlein, GHD conducted excavation verification sampling. A copy of the disposal manifests are provided in Attachment A.

On February 3, 2016 GHD collected 8 surface soil samples, 1 on each of the short north-west and south-east sidewalls, 2 on each of the longer north-east and south-west sidewalls, and the 2 remaining samples were taken from the floor of the excavation. The locations of the samples are presented on Figure 1.

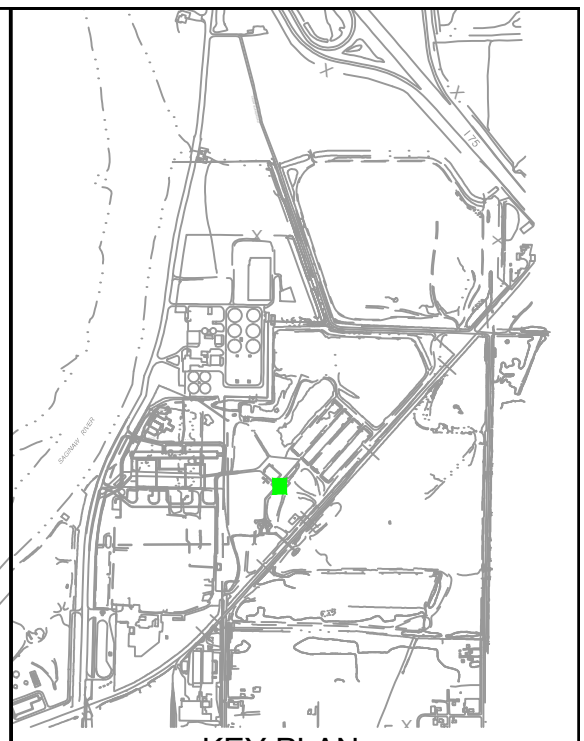
Table 1 presents a summary of the soil sample results for Total PCBs and the laboratory analytical report is provided in Attachment B. All samples had reported concentrations of Total PCBs below 1 milligram per

GHD
14496 Sheldon Road Suite 200 Plymouth Michigan 48170 USA
T 734 453 5123 **F** 734 453 3792 **W** www.ghd.com

kilogram (mg/kg), which is the cleanup level for bulk PCB remediation waste in high occupancy areas without further conditions, therefore no further action is recommended for this area.



FORMER WWTP BUILDING



KEY PLAN

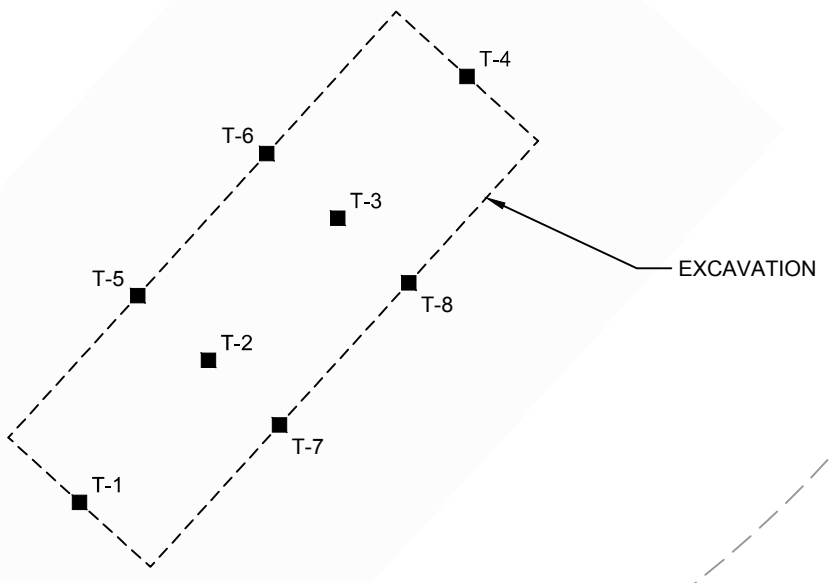
SCALE: 1" = 2,000'

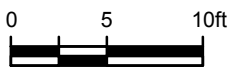
FORMER MAINTENANCE BUILDING

TRANSFORMER PAD

SEE CLOSE-UP BELOW

PLAN





TRANSFORMER PAD

LEGEND

T-1 SOIL BORING LOCATION

SOURCE:
MICHIGAN STATE PLANE SOUTH, NAD 83 USING
INTERNATIONAL FEET, NGVD 88, TOPO - SANBORN, 1996,

figure 1

TRANSFORMER PAD EXCAVATION VERIFICATION SAMPLE LOCATIONS
SAGINAW NODULAR INDUSTRIAL LAND
Saginaw, Michigan

58502-T02(MEMO017)GN-WA001 MAR 1, 2016

Table 1

Transformer Pad Excavation Verification Sampling Results
RACER - Saginaw Nodular Industrial Land
Saginaw, MI

Sample Location:		T1	T2	T3	T4	T5	T6	T7	T8
Sample ID:		S-58502-020316-SSH-1603	S-58502-020316-SSH-1609	S-58502-020316-SSH-1610	S-58502-020316-SSH-1606	S-58502-020316-SSH-1604	S-58502-020316-SSH-1605	S-58502-020316-SSH-1608	S-58502-020316-SSH-1607
Sample Date:		2/3/2016	2/3/2016	2/3/2016	2/3/2016	2/3/2016	2/3/2016	2/3/2016	2/3/2016
Sample Depth Interval:		0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		SW Sidewall Sample	Floor Sample	Floor Sample	NE Sidewall Sample	NW Sidewall Sample	NW Sidewall Sample	SE Sidewall Sample	SE Sidewall Sample
Parameters	**Units**								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1242 (PCB-1242)	mg/kg	0.094	0.036 U	0.099	0.039 U	0.035 U	0.035 U	0.36	0.075 U
Aroclor-1248 (PCB-1248)	mg/kg	0.036 U	0.036 U	0.037 U	0.15	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1254 (PCB-1254)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.13
Aroclor-1260 (PCB-1260)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1262 (PCB-1262)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U
Aroclor-1268 (PCB-1268)	mg/kg	0.036 U	0.036 U	0.037 U	0.039 U	0.035 U	0.035 U	0.076 U	0.075 U

Footnotes:

U Not detected at the associated reporting limit.

Attachment A
Disposal Manifests

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
	M I D 0 4 1 7 9 3 3 4 0	1	(734) 437-9677	008702339 FLE

GENERATOR

5. Generator's Name and Mailing Address / Generator's Site Address (if different than mailing address)

Racer Trust
2100 Veteran Memorial Parkway Saginaw, MI 48506
Generator's Phone: 989 205-6574 Kevin Overly

6. Transporter 1 Company Name — U.S. EPA ID Number
ERG Environmental Services — M I D 0 5 9 9 1 2 9 5 6

7. Transporter 2 Company Name — U.S. EPA ID Number
Environmental Recycling — O H R 0 0 0 0 3 4 0 2 5

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Environmental Recycling
527 East Woodland Circle, PO Box 167 Bowling Green, OH 43402
Facility's Phone: (800) 284-9107 — O H R 0 0 0 0 3 4 0 2 5

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. Used Oil, Non-Hazardous Liquid	006	DM	330	G	021L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: Approval # PCB012916-01 (Transformer Oil, <33ppm PCB)
2:
3:
4:

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. 4WM012716-D

Generator's/Offeror's Printed/Typed Name: Patrick Wuttke — Signature — Month 09 Day 28 Year 16

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tijaun Jones — Signature — Month 11 Day 29 Year 16

Transporter 2 Printed/Typed Name: Sandra Mary — Signature — Month 10 Day 05 Year 16

DESIGNATED FACILITY

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.	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 — Month Day Year

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

This Memorandum is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

[illegible]

Page 1 of 1

ERG Environmental Services
(Name of carrier) (SCAC)

Shipper No. [illegible]
Carrier No. [illegible]
Date [illegible]

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Consignee: Environmental Recycling
Street: 527 East Woodland Circle, PO Box 157
City: Bowling Green State: OH Zip Code: 43402

FROM: Shipper: Racer Trust
Street: 3100 Veteran Memorial Parkway
City: Saginaw State: MI Zip Code: 48306
24 hr. Emergency Contact Tel. No. ERG @ (734) 437-96[illegible]

Route

Vehicle Number [illegible]

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
3		Electronic Devices for Recycling, Universal Waste Electronics	8 [illegible]			
		Non-Hazardous Material, Solid				
2		Dry Transformer for Recycling (<33ppm PCB)	13 [illegible]			
		Date Received 2-2-2016 / Date Shipped	2-2-2016			

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding ____________ per ____________."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

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.

[signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [signature]

PER [signature]

[signature]

Permanent post-office address of shipper.

CARRIER [signature]

PER [signature]

DATE 2-2-2016

3

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Ticket # 11825716

IRWS, Inc.

Innovative recycling and waste services, inc. (248) 521-3338
1397 Genoa Ct. Highland, MI. 48356

BILL OF LADING

Number:

From:	To:
Name: Racer Trust / Nodular	Name: WM Peoples Landfill
Address: 2100 Memorial Hwy	Address: 4143 E. Rathbun Rd.
City/State/Zip: Saginaw, MI. 48506	City/State/Zip: Birch Run, MI. 48415
Phone: 989 205 6514	Phone: 989-777-1145
Emergency Contact: Phone #:	Shipping Or PO# 16-030

HM	Container Count	Container Type	Total Only Cnt or WT	DOT Description	Common Name	Comments
				RQ UN2809, Mercury contained in manufactured articles, 8, PG III, ERG #172	Mercury Containing Articles (Refer to State Regulations)	
				RQ UN2809, Mercury, 8, PG III, ERG #172		
				UN2795, Batteries, wet filled with alkali, 8, PGIII, ERG #154	NiCad Batteries, Wet	
				UN2800, Batteries, wet, non spillable, electric storage, 8, PGIII, ERG #154	Lead Acid Batteries - Sealed	
				UN2794, Batteries, wet, filled with acid, 8, PGIII, ERG #154	Lead Acid Batteries	
				UN3077, Environmentally Hazardous Substance, solid, n.o.s., 9, PGIII (Mercury) ERG #171	Mercury Batteries	
				UN3090, Lithium Battery, 9, PGIII, ERG #138	Lithium Batteries	
				Batteries, dry, non-DOT regulated	NiCad Batteries, Alkaline	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Fluorescent Lamps 4/8	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Circular/U-tube Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	HID Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Other Lamps - describe	
				Non-DOT Regulated Ballasts	Non PCB Light Ballasts	
				Non-DOT Regulated Electronic Equipment for Recycling/Reuse/Remanufacture	Electronics	
	1	Rolloff	10.68 Tons	Non-Hazardous Solid (Concrete)		

Generator/Shippers Certification

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. All containers of waste are fully described above and are presumed to be full unless the Generator has provided a detailed, verifiable breakdown of the wastes being picked up or delivered. Actual quantities will be determined upon receipt a the Designation Facility.

Signature: Patrick Wamfeld Date: 2/1/16

Transporter 1 Name: B. Wy's Contracting
Phone Number: 989 753-7719
Signature: [signature] Date: 2/1/16

Transporter 2 Name:
Phone Number:
Signature: Date:

Received, subject to the classifications and regulations in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted. Per 40 CFR 273.18(d), 40 CFR 273.3.8(d), and 40 CFR 264.12(b) the Designated Facility agrees to receive shipments of Universal Waste from the Generator

IRWS, Inc.

Innovative recycling and waste services, inc. (248) 521-3338
1397 Genoa Ct. Highland, MI. 48356

Ticket # 1825764

BILL OF LADING

Number:

From:	To:
Name: Racer Trust / Nodular	Name: WM Peoples Landfill
Address: 2100 Memorial Hwy	Address: 4143 E. Rathbun Rd.
City/State/Zip: Saginaw, MI. 48506	City/State/Zip: Birch Run, MI. 48415
Phone: 989 205 6514	Phone: 989-777-1145
Emergency Contact:	Shipping
Phone #:	Or PO# 16-030

HM	Container Count	Container Type	Total Only Cnt or WT	DOT Description	Common Name	Comments
				RQ UN2809, Mercury contained in manufactured articles, 8, PG III, ERG #172	Mercury Containing Articles (Refer to State Regulations)	
				RQ UN2809, Mercury, 8, PG III, ERG #172		
				UN2795, Batteries, wet filled with alkali, 8, PGIII, ERG #154	NiCad Batteries, Wet	
				UN2800, Batteries, wet, non spillable, electric storage, 8, PGIII, ERG #154	Lead Acid Batteries - Sealed	
				UN2794, Batteries, wet, filled with acid, 8, PGIII, ERG #154	Lead Acid Batteries	
				UN3077, Environmentally Hazardous Substance, solid, n.o.s., 9, PGIII (Mercury) ERG #171	Mercury Batteries	
				UN3090, Lithium Battery, 9, PGIII, ERG #138	Lithium Batteries	
				Batteries, dry, non-DOT regulated	NiCad Batteries, Alkaline	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Fluorescent Lamps 4/8	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Circular/U-tube Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	HID Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Other Lamps - describe	
				Non-DOT Regulated Ballasts	Non PCB Light Ballasts	
				Non-DOT Regulated Electronic Equipment for Recycling/Reuse/Remanufacture	Electronics	
	1	Roll off	10.21 Tons	Non-Hazardous Solid (Concrete)		

Generator/Shippers Certification

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. All containers of waste are fully described above and are presumed to be full unless the Generator has provided a detailed, verifiable breakdown of the wastes being picked up or delivered. Actual quantities will be determined upon receipt a the Designation Facility.

Signature: [signature] Date: 2/2/16

Transporter 1 Name: Billy's Contracting
Phone Number: 989 753-7719
Signature: [signature] Date: 2/2/16

Transporter 2 Name:
Phone Number:
Signature: Date:

Received, subject to the classifications and regulations in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted. Per 40 CFR 273.18(d), 40 CFR 273.3.8(d), and 40 CFR 264.12(b) the Designated Facility agrees to receive shipments of Universal Waste from the Generator

IRWS, Inc.

Innovative recycling and waste services, inc. (248) 521-3338
1397 Genoa Ct. Highland, MI. 48356

Ticket # 11825.750

BILL OF LADING

Number:

From:
Name: Roger Trust / Modulaire
Address: 2100 Memorial Hwy
City/State/Zip: Saginaw, MI. 48506
Phone: 9892056544

To:
Name: WM Peoples Landfill
Address: 4435 E. Rathbun Rd.
City/State/Zip: Birch Run, MI. 48415
Phone: 989-777-1145

Emergency Contact:
Phone #:

Shipping
Or PO# 16-030

HM	Container Count	Container Type	Total Only Cnt or WT	DOT Description	Common Name	Comments
				RQ UN2809, Mercury contained in manufactured articles, 8, PG III, ERG #172	Mercury Containing Articles (Refer to State Regulations)	
				RQ UN2809, Mercury, 8, PG III, ERG #172		
				UN2795, Batteries, wet filled with alkali, 8, PGIII, ERG #154	NiCad Batteries, Wet	
				UN2800, Batteries, wet, non spillable, electric storage, 8, PGIII, ERG #154	Lead Acid Batteries - Sealed	
				UN2794, Batteries, wet, filled with acid, 8, PGIII, ERG #154	Lead Acid Batteries	
				UN3077, Environmentally Hazardous Substance, solid, n.o.s., 9, PGIII (Mercury) ERG #171	Mercury Batteries	
				UN3090, Lithium Battery, 9, PGIII, ERG #138	Lithium Batteries	
				Batteries, dry, non-DOT regulated	NiCad Batteries, Alkaline	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Fluorescent Lamps 4/8	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Circular/U-tube Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	HID Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Other Lamps - describe	
				Non-DOT Regulated Ballasts	Non PCB Light Ballasts	
				Non-DOT Regulated Electronic Equipment for Recycling/Reuse/Remanufacture	Electronics	
	1	Rolloff	14.82 Tons	Non-Hazardous Solid (Concrete)		

Generator/Shippers Certification

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Signature: Patrick Wm Trust Date: 2/2/16

Transporter 1 Name: Billy's Contracting
Phone Number: 989 753-7778
Signature: Date: 2/2/16

Transporter 2 Name:
Phone Number:
Signature: Date:

Received, subject to the classifications and regulations in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted. Per 40 CFR 273.18(d), 40 CFR 273.3.8(d), and 40 CFR 264.12(b) the Designated Facility agrees to receive shipments of Universal Waste from the Generator

IRWS, Inc.

innovative recycling and waste services, inc. (248) 521-3338
1397 Genoa Ct. Highland, MI. 48356

Ticket # 11825739

BILL OF LADING

Number:

From:	To:
Name: Racer Trust / Nodulare	Name: WM Peoples Landfill
Address: 2100 Memorial Hwy	Address: 4443 E. Rathbun Rd.
City/State/Zip: Saginaw, MI. 48506	City/State/Zip: Birch Run, MI. 48415
Phone: 989 205 6514	Phone: 989-777-1145
Emergency Contact: Phone #:	Shipping Or PO# 16-030

HM	Container Count	Container Type	Total Only Cnt or WT	DOT Description	Common Name	Comments
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				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	HID Lamps	
				Lamps, Non-DOT Regulated (per 49 CFR 173.164(e))	Other Lamps - describe	
				Non-DOT Regulated Ballasts	Non PCB Light Ballasts	
				Non-DOT Regulated Electronic Equipment for Recycling/Reuse/Remanufacture	Electronics	
	1	Rolloff	12.67 Tons	Non-Hazardous Solid (Concrete)		

Generator/Shippers Certification

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Signature: [signature] Date: 2/1/16

Transporter 1 Name: B. Ellis Contracting
Phone Number: 989 753-7719
Signature: [signature] Date: 2/1/16

Transporter 2 Name:
Phone Number:
Signature: Date:

Received, subject to the classifications and regulations in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted. Per 40 CFR 273.18(d), 40 CFR 273.3.8(c), and 40 CFR 264.12(b) the Designated Facility agrees to receive shipments of Universal Waste from the Generator

Attachment B
Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-60568-1
Client Project/Site: 58502-016, RACER Nodular Iron

For:
GHD Services Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Rawa Fleisher

Denise D Heckler

Authorized for release by:
2/22/2016 1:14:36 PM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

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Job ID: 240-60568-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 58502-016, RACER Nodular Iron

Report Number: 240-60568-1

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

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/04/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.3 C.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples S-58502-020316-SSH-1603 (240-60568-1), S-58502-020316-SSH-1604 (240-60568-2), S-58502-020316-SSH-1605 (240-60568-3), S-58502-020316-SSH-1606 (240-60568-4), S-58502-020316-SSH-1607 (240-60568-5), S-58502-020316-SSH-1608 (240-60568-6), S-58502-020316-SSH-1609 (240-60568-7) and S-58502-020316-SSH-1610 (240-60568-8) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 02/05/2016 and analyzed on 02/15/2016 and 02/19/2016.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-58502-020316-SSH-1603 (240-60568-1), S-58502-020316-SSH-1604 (240-60568-2), S-58502-020316-SSH-1605 (240-60568-3), S-58502-020316-SSH-1606 (240-60568-4), S-58502-020316-SSH-1609 (240-60568-7), S-58502-020316-SSH-1610 (240-60568-8), (240-60559-E-1-C), (240-60559-E-1-D MS) and (240-60559-E-1-E MSD). Reagents: 2391676,2103101 and 2333856.

Job ID: 240-60568-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: S-58502-020316-SSH-1606 (240-60568-4), S-58502-020316-SSH-1609 (240-60568-7) and S-58502-020316-SSH-1610 (240-60568-8). Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-58502-020316-SSH-1608 (240-60568-6). Reagents: 2391676,2103101 and 2333856.

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: S-58502-020316-SSH-1607 (240-60568-5). Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-58502-020316-SSH-1607 (240-60568-5). Reagents: 2391676,2103101 and 2333856.

Samples S-58502-020316-SSH-1607 (240-60568-5)[2X] and S-58502-020316-SSH-1608 (240-60568-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Qualifiers

GC Semi VOA

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

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)

Sample Summary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-60568-1	S-58502-020316-SSH-1603	Solid	02/03/16 11:00	02/04/16 09:40
240-60568-2	S-58502-020316-SSH-1604	Solid	02/03/16 11:05	02/04/16 09:40
240-60568-3	S-58502-020316-SSH-1605	Solid	02/03/16 11:10	02/04/16 09:40
240-60568-4	S-58502-020316-SSH-1606	Solid	02/03/16 11:15	02/04/16 09:40
240-60568-5	S-58502-020316-SSH-1607	Solid	02/03/16 11:20	02/04/16 09:40
240-60568-6	S-58502-020316-SSH-1608	Solid	02/03/16 11:25	02/04/16 09:40
240-60568-7	S-58502-020316-SSH-1609	Solid	02/03/16 11:30	02/04/16 09:40
240-60568-8	S-58502-020316-SSH-1610	Solid	02/03/16 12:35	02/04/16 09:40

Detection Summary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Client Sample ID: S-58502-020316-SSH-1603 — Lab Sample ID: 240-60568-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	94		36		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-58502-020316-SSH-1604 — Lab Sample ID: 240-60568-2

No Detections.

Client Sample ID: S-58502-020316-SSH-1605 — Lab Sample ID: 240-60568-3

No Detections.

Client Sample ID: S-58502-020316-SSH-1606 — Lab Sample ID: 240-60568-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	150		39		ug/Kg	1	☼	8082	Total/NA

Client Sample ID: S-58502-020316-SSH-1607 — Lab Sample ID: 240-60568-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	130		75		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: S-58502-020316-SSH-1608 — Lab Sample ID: 240-60568-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	360		76		ug/Kg	2	☼	8082	Total/NA

Client Sample ID: S-58502-020316-SSH-1609 — Lab Sample ID: 240-60568-7

No Detections.

Client Sample ID: S-58502-020316-SSH-1610 — Lab Sample ID: 240-60568-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	99		37		ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1603
Date Collected: 02/03/16 11:00
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-1
Matrix: Solid
Percent Solids: 92.4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1221	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1232	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1242	**94**		36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1248	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1254	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1260	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1262	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1
Aroclor-1268	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*13 - 134*	*02/05/16 08:34*	*02/15/16 19:35*	*1*
DCB Decachlorobiphenyl	*79*		*10 - 155*	*02/05/16 08:34*	*02/15/16 19:35*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1604
Date Collected: 02/03/16 11:05
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-2
Matrix: Solid
Percent Solids: 93.5

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1221	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1232	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1242	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1248	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1254	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1260	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1262	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1
Aroclor-1268	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*13 - 134*	*02/05/16 08:34*	*02/15/16 19:53*	*1*
DCB Decachlorobiphenyl	*67*		*10 - 155*	*02/05/16 08:34*	*02/15/16 19:53*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1605
Date Collected: 02/03/16 11:10
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-3
Matrix: Solid
Percent Solids: 94.0

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1221	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1232	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1242	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1248	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1254	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1260	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1262	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1
Aroclor-1268	35	U	35		ug/Kg	☼	02/05/16 08:34	02/15/16 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*13 - 134*	*02/05/16 08:34*	*02/15/16 20:11*	*1*
DCB Decachlorobiphenyl	*71*		*10 - 155*	*02/05/16 08:34*	*02/15/16 20:11*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1606
Date Collected: 02/03/16 11:15
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-4
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1221	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1232	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1242	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1248	**150**		39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1254	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1260	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1262	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1
Aroclor-1268	39	U	39		ug/Kg	☼	02/05/16 08:34	02/15/16 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*13 - 134*	*02/05/16 08:34*	*02/15/16 20:30*	*1*
DCB Decachlorobiphenyl	*52*		*10 - 155*	*02/05/16 08:34*	*02/15/16 20:30*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1607
Date Collected: 02/03/16 11:20
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-5
Matrix: Solid
Percent Solids: 87.2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1221	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1232	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1242	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1248	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1254	**130**		75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1260	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1262	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2
Aroclor-1268	75	U	75		ug/Kg	☼	02/05/16 08:34	02/19/16 13:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*13 - 134*	*02/05/16 08:34*	*02/19/16 13:10*	*2*
DCB Decachlorobiphenyl	*78*		*10 - 155*	*02/05/16 08:34*	*02/19/16 13:10*	*2*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1608
Date Collected: 02/03/16 11:25
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-6
Matrix: Solid
Percent Solids: 87.6

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1221	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1232	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1242	**360**		76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1248	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1254	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1260	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1262	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2
Aroclor-1268	76	U	76		ug/Kg	☼	02/05/16 08:34	02/19/16 05:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*13 - 134*	*02/05/16 08:34*	*02/19/16 05:22*	*2*
DCB Decachlorobiphenyl	*86*		*10 - 155*	*02/05/16 08:34*	*02/19/16 05:22*	*2*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1609
Date Collected: 02/03/16 11:30
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-7
Matrix: Solid
Percent Solids: 93.2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1221	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1232	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1242	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1248	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1254	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1260	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1262	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1
Aroclor-1268	36	U	36		ug/Kg	☼	02/05/16 08:34	02/15/16 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*13 - 134*	*02/05/16 08:34*	*02/15/16 22:19*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 155*	*02/05/16 08:34*	*02/15/16 22:19*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-58502-020316-SSH-1610
Date Collected: 02/03/16 12:35
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-8
Matrix: Solid
Percent Solids: 90.7

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1221	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1232	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1242	**99**		37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1248	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1254	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1260	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1262	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1
Aroclor-1268	37	U	37		ug/Kg	☼	02/05/16 08:34	02/15/16 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*13 - 134*	*02/05/16 08:34*	*02/15/16 22:38*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 155*	*02/05/16 08:34*	*02/15/16 22:38*	*1*

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1603
Date Collected: 02/03/16 11:00
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-1
Matrix: Solid
Percent Solids: 92.4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.4		0.1		%			02/08/16 15:04	1
Percent Moisture	7.6		0.1		%			02/08/16 15:04	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1604
Date Collected: 02/03/16 11:05
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-2
Matrix: Solid
Percent Solids: 93.5

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**93.5**		0.1		%			02/08/16 15:04	1
Percent Moisture	**6.5**		0.1		%			02/08/16 15:04	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1605
Date Collected: 02/03/16 11:10
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-3
Matrix: Solid
Percent Solids: 94.0

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**94.0**		0.1		%			02/08/16 15:50	1
Percent Moisture	**6.0**		0.1		%			02/08/16 15:50	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1606
Date Collected: 02/03/16 11:15
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-4
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.0		0.1		%			02/08/16 15:50	1
Percent Moisture	17.0		0.1		%			02/08/16 15:50	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1607
Date Collected: 02/03/16 11:20
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-5
Matrix: Solid
Percent Solids: 87.2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.2		0.1		%			02/08/16 15:50	1
Percent Moisture	12.8		0.1		%			02/08/16 15:50	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1608
Date Collected: 02/03/16 11:25
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-6
Matrix: Solid
Percent Solids: 87.6

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.6		0.1		%			02/08/16 15:50	1
Percent Moisture	12.4		0.1		%			02/08/16 15:50	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1609
Date Collected: 02/03/16 11:30
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-7
Matrix: Solid
Percent Solids: 93.2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.2		0.1		%			02/08/16 15:50	1
Percent Moisture	6.8		0.1		%			02/08/16 15:50	1

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

General Chemistry

Client Sample ID: S-58502-020316-SSH-1610
Date Collected: 02/03/16 12:35
Date Received: 02/04/16 09:40

Lab Sample ID: 240-60568-8
Matrix: Solid
Percent Solids: 90.7

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.7		0.1		%			02/08/16 15:50	1
Percent Moisture	9.3		0.1		%			02/08/16 15:50	1

GC Semi VOA

Prep Batch: 216785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60568-1	S-58502-020316-SSH-1603	Total/NA	Solid	3540C	
240-60568-2	S-58502-020316-SSH-1604	Total/NA	Solid	3540C	
240-60568-3	S-58502-020316-SSH-1605	Total/NA	Solid	3540C	
240-60568-4	S-58502-020316-SSH-1606	Total/NA	Solid	3540C	
240-60568-5	S-58502-020316-SSH-1607	Total/NA	Solid	3540C	
240-60568-6	S-58502-020316-SSH-1608	Total/NA	Solid	3540C	
240-60568-7	S-58502-020316-SSH-1609	Total/NA	Solid	3540C	
240-60568-8	S-58502-020316-SSH-1610	Total/NA	Solid	3540C	
LCS 240-216785/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-216785/23-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 217450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60568-1	S-58502-020316-SSH-1603	Total/NA	Solid	8082	216785
240-60568-2	S-58502-020316-SSH-1604	Total/NA	Solid	8082	216785
240-60568-3	S-58502-020316-SSH-1605	Total/NA	Solid	8082	216785
240-60568-4	S-58502-020316-SSH-1606	Total/NA	Solid	8082	216785
240-60568-7	S-58502-020316-SSH-1609	Total/NA	Solid	8082	216785
240-60568-8	S-58502-020316-SSH-1610	Total/NA	Solid	8082	216785
LCS 240-216785/24-A	Lab Control Sample	Total/NA	Solid	8082	216785
MB 240-216785/23-A	Method Blank	Total/NA	Solid	8082	216785

Analysis Batch: 217990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60568-6	S-58502-020316-SSH-1608	Total/NA	Solid	8082	216785

Analysis Batch: 218104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60568-5	S-58502-020316-SSH-1607	Total/NA	Solid	8082	216785

General Chemistry

Analysis Batch: 216933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60568-1	S-58502-020316-SSH-1603	Total/NA	Solid	Moisture	
240-60568-2	S-58502-020316-SSH-1604	Total/NA	Solid	Moisture	
240-60568-2 DU	S-58502-020316-SSH-1604	Total/NA	Solid	Moisture	
240-60568-3	S-58502-020316-SSH-1605	Total/NA	Solid	Moisture	
240-60568-4	S-58502-020316-SSH-1606	Total/NA	Solid	Moisture	
240-60568-5	S-58502-020316-SSH-1607	Total/NA	Solid	Moisture	
240-60568-6	S-58502-020316-SSH-1608	Total/NA	Solid	Moisture	
240-60568-7	S-58502-020316-SSH-1609	Total/NA	Solid	Moisture	
240-60568-8	S-58502-020316-SSH-1610	Total/NA	Solid	Moisture	

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-216785/23-A
Matrix: Solid
Analysis Batch: 217450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216785

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1221	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1232	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1242	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1248	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1254	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1260	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1262	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1
Aroclor-1268	33	U	33		ug/Kg		02/05/16 08:34	02/15/16 20:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*13 - 134*	*02/05/16 08:34*	*02/15/16 20:48*	*1*
DCB Decachlorobiphenyl	*74*		*10 - 155*	*02/05/16 08:34*	*02/15/16 20:48*	*1*

Lab Sample ID: LCS 240-216785/24-A
Matrix: Solid
Analysis Batch: 217450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216785

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			333	234		ug/Kg		70	51 - 120		
Aroclor-1260			333	251		ug/Kg		75	48 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*13 - 134*
DCB Decachlorobiphenyl	*78*		*10 - 155*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-60568-2 DU
Matrix: Solid
Analysis Batch: 216933

Client Sample ID: S-58502-020316-SSH-1604
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	93.5			93.8		%				0.3	20
Percent Moisture	6.5			6.2		%				5	20

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(13-134)	(10-155)										
240-60568-1	S-58502-020316-SSH-1603	70	79										
240-60568-2	S-58502-020316-SSH-1604	68	67										
240-60568-3	S-58502-020316-SSH-1605	75	71										
240-60568-4	S-58502-020316-SSH-1606	45	52										
240-60568-7	S-58502-020316-SSH-1609	74	76										
240-60568-8	S-58502-020316-SSH-1610	72	83										
LCS 240-216785/24-A	Lab Control Sample	76	78										
MB 240-216785/23-A	Method Blank	81	74										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB2										
Lab Sample ID	Client Sample ID	(13-134)	(10-155)										
240-60568-5	S-58502-020316-SSH-1607	74	78										
240-60568-6	S-58502-020316-SSH-1608	62	86										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Client Sample ID: S-58502-020316-SSH-1603
Lab Sample ID: 240-60568-1
Date Collected: 02/03/16 11:00
Matrix: Solid
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:04	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1603
Lab Sample ID: 240-60568-1
Date Collected: 02/03/16 11:00
Matrix: Solid
Date Received: 02/04/16 09:40
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 19:35	HMB	TAL CAN

Client Sample ID: S-58502-020316-SSH-1604
Lab Sample ID: 240-60568-2
Date Collected: 02/03/16 11:05
Matrix: Solid
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:04	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1604
Lab Sample ID: 240-60568-2
Date Collected: 02/03/16 11:05
Matrix: Solid
Date Received: 02/04/16 09:40
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 19:53	HMB	TAL CAN

Client Sample ID: S-58502-020316-SSH-1605
Lab Sample ID: 240-60568-3
Date Collected: 02/03/16 11:10
Matrix: Solid
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1605
Lab Sample ID: 240-60568-3
Date Collected: 02/03/16 11:10
Matrix: Solid
Date Received: 02/04/16 09:40
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 20:11	HMB	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Client Sample ID: S-58502-020316-SSH-1606 — **Lab Sample ID: 240-60568-4**
Date Collected: 02/03/16 11:15 — **Matrix: Solid**
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1606 — **Lab Sample ID: 240-60568-4**
Date Collected: 02/03/16 11:15 — **Matrix: Solid**
Date Received: 02/04/16 09:40 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 20:30	HMB	TAL CAN

Client Sample ID: S-58502-020316-SSH-1607 — **Lab Sample ID: 240-60568-5**
Date Collected: 02/03/16 11:20 — **Matrix: Solid**
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1607 — **Lab Sample ID: 240-60568-5**
Date Collected: 02/03/16 11:20 — **Matrix: Solid**
Date Received: 02/04/16 09:40 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		2	218104	02/19/16 13:10	HMB	TAL CAN

Client Sample ID: S-58502-020316-SSH-1608 — **Lab Sample ID: 240-60568-6**
Date Collected: 02/03/16 11:25 — **Matrix: Solid**
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1608 — **Lab Sample ID: 240-60568-6**
Date Collected: 02/03/16 11:25 — **Matrix: Solid**
Date Received: 02/04/16 09:40 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		2	217990	02/19/16 05:22	HMB	TAL CAN

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Client Sample ID: S-58502-020316-SSH-1609
Lab Sample ID: 240-60568-7
Date Collected: 02/03/16 11:30
Matrix: Solid
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1609
Lab Sample ID: 240-60568-7
Date Collected: 02/03/16 11:30
Matrix: Solid
Date Received: 02/04/16 09:40
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 22:19	HMB	TAL CAN

Client Sample ID: S-58502-020316-SSH-1610
Lab Sample ID: 240-60568-8
Date Collected: 02/03/16 12:35
Matrix: Solid
Date Received: 02/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	216933	02/08/16 15:50	GNR	TAL CAN

Client Sample ID: S-58502-020316-SSH-1610
Lab Sample ID: 240-60568-8
Date Collected: 02/03/16 12:35
Matrix: Solid
Date Received: 02/04/16 09:40
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			216785	02/05/16 08:34	SDE	TAL CAN
Total/NA	Analysis	8082		1	217450	02/15/16 22:38	HMB	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: GHD Services Inc.
Project/Site: 58502-016, RACER Nodular Iron

TestAmerica Job ID: 240-60568-1

Laboratory: TestAmerica Canton

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	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16 *
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	06-30-16
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-16 *
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16 *
West Virginia DEP	State Program	3	210	12-31-15 *
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

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Brighton, MI 48116
Phone: 810.229.2763 Fax:

0.81 C0.3

Chain of Custody Record

105142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: M. Tomka	Site Contact: S Hoisington	Date: 2/3/16	COC No: 105142
Company Name: GHD Services Inc	Tel/Fax: 519 884 0510	Lab Contact: D. Heckler	Carrier: FedEx	1 of 1 COCs
Address: 14496 N Sheldon Rd Ste 200	Analysis Turnaround Time			Sampler: S Hoisington
City/State/Zip: Plymouth, MI 48170	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 734 451 5123	TAT if different from Below _____			Walk-in Client:
Fax:	☒ 2 weeks			Lab Sampling:
Project Name: RacoTrust Nodular	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# SSOW 58502-016	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PLBs	Sample Specific Notes:
S-58502-02316-SSH-1603	2/3/16	1100	G	Soil	1			X	
-1604		1105	G		1			X	
-1605		1110	G		1			X	
-1606		1115	G		1			X	
-1607		1120	G		1			X	
-1608		1125	G		1			X	
-1609		1130	G		1			X	
S-58502-02316-SS4-1610		1135	G		1			X	
SSH									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 553747		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: GHD Services	Date/Time: 2/3/16 1600	Received by:	Company: TAE	Date/Time: 2/4/16 0940
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 60568
Canton Facility

Client GHD Services Inc. Site Name _____ Cooler unpacked by:

Cooler Received on 2-4-16 Opened on 2-4-16

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN# 18 (CF -0.5 °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 0.3 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No

-Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA

-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)

3. Shippers' packing slip attached to the cooler(s)? (Yes) No

4. Did custody papers accompany the sample(s)? (Yes) No

5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No

6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No

7. Did all bottles arrive in good condition (Unbroken)? (Yes) No

8. Could all bottle labels be reconciled with the COC? (Yes) No

9. Were correct bottle(s) used for the test(s) indicated? (Yes) No

10. Sufficient quantity received to perform indicated analyses? (Yes) No

11. Are these work share samples? Yes (No)

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC559158

13. Were VOAs on the COC? Yes (No)

14. Were air bubbles >6 mm in any VOA vials? Yes No (NA)

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes (No)

16. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____