United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 08/25/2017

Subject: Transmittal of Sample Analysis Results for ASR #: 7537

Project ID: MSGR5MASD

Project Description: Region 5 - Mid-America Steel Drum

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch, Environmental Sciences & Technology Division

To: Margie St. Germain
ENST/LTAB

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

ASR Number: 7537 **Summary of Project Information** **08/25/2017**

Project Manager: Margie St. Germain **Org:** ENST/LTAB **Phone:** 913-551-5154

Project ID: MSGR5MASD **QAPP Number:** REGION 5

Project Desc: Region 5 - Mid-America Steel Drum

Location: St. Francis/Oak Cree **State:** Wisconsin **Program:** RCRA Enforcement

Purpose: Enforcement **GPRA PRC:** 303D99

EPA Generator ID: WIR 000 131 367, WID 045 953 189.
This is a continuation of a sampling event that was conducted at the facilities using a warrant. Region 5 RA has requested this sampling. This sampling event will include soil samples outside the facility and from neighboring houses.
EPA Region 5 contact (JPaulin) noted on 6/20/17 that this activity is not part of a litigation hold at this time.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample

Units: Specific units in which results are reported.

% = Percent
mg/kg = Milligrams per Kilogram
mg/L = Milligrams per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
U = The analyte was not detected at or above the reporting limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

ASR Number: 7537 **Sample Information Summary** **08/25/2017**

Project ID: MSGR5MASD **Project Desc:** Region 5 - Mid-America Steel Drum

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	__	Solid	SF001		07/17/2017	13:46			07/19/2017
2 -	__	Solid	SF002		07/17/2017	13:54			07/19/2017
3 -	__	Solid	SF003		07/17/2017	14:04			07/19/2017
4 -	__	Solid	SF004		07/17/2017	14:12			07/19/2017
5 -	__	Solid	SF005		07/17/2017	14:21			07/19/2017
6 -	__	Solid	SF006		07/17/2017	14:32			07/19/2017
7 -	__	Solid	SF007		07/17/2017	15:38			07/19/2017

ASR Number: 7537 **RLAB Approved Analysis Comments** **08/25/2017**

Project ID: MSGR5MASD **Project Desc** Region 5 - Mid-America Steel Drum

Analysis	Comments About Results For This Analysis

1 Mercury in Soil or Sediment

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3121.23D

Basis: Dry

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Comments:

1 Percent Solid

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3142.9H

Basis: N/A

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Comments:
(N/A)

1 TCLP Mercury in Soil

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3121.23D applied to TCLP extracts

Basis: N/A

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Comments:
Samples 1-7 and 1 MS/MSD were analyzed 2 day(s) past their 28 day holding time. All positive results were reported with a J-code indicating that they are estimated values. All results below the reporting limit were reported with a UJ-code indicating that they are estimated values. The actual concentration of some or all analytes may have been higher than the reported result.

1 TCLP Metals in Soil

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3122.3F TCLP

Basis: N/A

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Comments:
Selenium was UJ-coded in sample 1. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

ASR Number: 7537 **RLAB Approved Analysis Comments** **08/25/2017**

Project ID: MSGR5MASD **Project Desc** Region 5 - Mid-America Steel Drum

Analysis	Comments About Results For This Analysis

1 Total Metals Analysis of TCLP Metals in Soil by ICP-AES

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3122.3F

Basis: Dry

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Comments:
Selenium was UJ-coded in samples 1, 2, 3, 4, 5, 6, and 7 (all the samples). This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory control sample. The actual reporting limit for this analyte may be higher than the reported value.

ASR Number: 7537 **RLAB Approved Sample Analysis Results** **08/25/2017**

Project ID: MSGR5MASD **Project Desc:** Region 5 - Mid-America Steel Drum

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Mercury in Soil or Sediment					
Mercury	mg/kg	0.0527	0.139	0.0907	0.282
1 Percent Solid					
Solids, percent	%	83.2	81.8	82.2	78.9
1 TCLP Mercury in Soil					
Mercury	mg/L	0.000250 UJ	0.000470 J	0.000250 UJ	0.000350 J
1 TCLP Metals in Soil					
Arsenic	mg/L	0.050 U	0.050 U	0.050 U	0.050 U
Barium	mg/L	0.283	0.313	0.298	0.308
Cadmium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Chromium	mg/L	0.019	0.018	0.015	0.017
Lead	mg/L	0.050 U	0.050 U	0.050 U	0.050 U
Selenium	mg/L	0.050 UJ	0.050 U	0.050 U	0.050 U
Silver	mg/L	0.025 U	0.025 U	0.025 U	0.025 U
1 Total Metals Analysis of TCLP Metals in Soil by ICP-AES					
Arsenic	mg/kg	2.49 U	3.63	2.48 U	2.48 U
Barium	mg/kg	38.0	43.3	38.9	40.1
Cadmium	mg/kg	3.57	2.74	2.55	2.70
Chromium	mg/kg	19.4	13.4	19.2	15.2
Lead	mg/kg	13.8	28.4	28.0	25.5
Selenium	mg/kg	2.49 UJ	2.49 UJ	2.48 UJ	2.48 UJ
Silver	mg/kg	1.24 U	1.25 U	1.24 U	1.24 U

ASR Number: 7537 **RLAB Approved Sample Analysis Results** **08/25/2017**

Project ID: MSGR5MASD **Project Desc:** Region 5 - Mid-America Steel Drum

Analysis/ Analyte	Units	5-__	6-__	7-__
1 Mercury in Soil or Sediment				
Mercury	mg/kg	0.0402	0.150	0.0376
1 Percent Solid				
Solids, percent	%	88.7	92.4	88.5
1 TCLP Mercury in Soil				
Mercury	mg/L	0.000250 UJ	0.000340 J	0.000810 J
1 TCLP Metals in Soil				
Arsenic	mg/L	0.050 U	0.050 U	0.050 U
Barium	mg/L	0.320	0.439	0.382
Cadmium	mg/L	0.005 U	0.005 U	0.005 U
Chromium	mg/L	0.015	0.017	0.019
Lead	mg/L	0.050 U	0.050 U	0.050 U
Selenium	mg/L	0.050 U	0.050 U	0.050 U
Silver	mg/L	0.025 U	0.025 U	0.025 U
1 Total Metals Analysis of TCLP Metals in Soil by ICP-AES				
Arsenic	mg/kg	6.00	2.49 U	4.55
Barium	mg/kg	110	58.9	39.5
Cadmium	mg/kg	5.87	3.40	3.60
Chromium	mg/kg	23.8	24.9	16.8
Lead	mg/kg	25.1	21.3	36.9
Selenium	mg/kg	2.50 UJ	2.49 UJ	2.49 UJ
Silver	mg/kg	1.25 U	1.25 U	1.25 U