



**STONY HOLLOW LANDFILL, INC.**  
2460 S. Gettysburg Ave.  
Dayton, OH 45418  
(937) 268-1133  
(937) 267-5110 Fax

June 20, 2017

Ms. Jennifer Marsee  
Unit Supervisor  
Regional Air Pollution Control Agency  
117 South Main Street1  
Dayton, OH 45422

**Re: DFFO Order No. 9 Ambient Air Monitoring – June 6-7, 2017 (REVISED)**  
**Stony Hollow Landfill**  
**Facility ID No. 08-57-04-3008**

Dear Ms. Marsee:

Stony Hollow Landfill, Inc. (Stony Hollow) contracted with LJB, Inc. (LJB) to perform the ambient air monitoring on the 1 in 3-day schedule as required by the Director's Final Findings and Orders, dated May 3, 2017. The 24-hour ambient air sampling was performed between June 6 – June 7, 2017 and ALS Environmental performed the USEPA Method TO-15, ASTM D 5504-12, and OSHA 1007 analyses.

The initial analytical results showed elevated formaldehyde results for both air samples. ALS Environmental reviewed the results and determined the formaldehyde results were incorrect due to a false positive peak being present.

Please find attached to this submittal letter the LJB revised ambient air monitoring report, which includes the revised analytical results. Per a review of the analytical results, the measured concentrations within the air samples were below the laboratory reporting limits or the NIOSH RELs and ATSDR MRLs.

If you have any questions, please contact the undersigned at (937) 356-6204.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Beth Shiverdecker', with a long horizontal flourish extending to the right.

Beth Shiverdecker for  
Peter Lucas, P.E.  
District Engineer

cc: Russell Brown, Michelle Ackenhausen - Ohio EPA  
Stony Hollow files



June 20, 2017

Mr. Peter Lucas  
 Waste Management – Stony Hollow Landfill  
 2460 South Gettysburg Avenue  
 Dayton, Ohio 45417

Via email: [plucas2@wm.com](mailto:plucas2@wm.com)

Re: June 6, 2017 ambient air sampling at Stony Hollow Landfill

Dear Mr. Lucas:

This is a revised report for the sampling period noted below. ALS Environmental’s Cincinnati laboratory submitted a revised report on June 20, 2017; formaldehyde results were corrected due to a false positive peak being present.

On June 6 through June 7, 2017 LJB Inc. collected two 24-hour ambient air samples at the Waste Management Stony Hollow Landfill. The samples included SHAA-N-08, collected from inside the northeast fence line of the landfill, and SHAA-S-08, collected from inside the southeast fence line of the landfill. One Summa canister and one UMEx 100 Passive Sampler were collected at each location. Attached is a map of the sample locations designated by Waste Management in accordance with the May 3, 2017 Ohio EPA Director’s Final Findings and Orders for Stony Hollow Landfill and the Air Monitor Siting Study prepared by SCS Engineers for Stony Hollow Landfill. Table 1 contains sample equipment and interval details.

TABLE 1

SAMPLE NO.	START DATE/TIME	END DATE/TIME	START PRESSURE	END PRESSURE	CANISTER NO.	CONTROLLER NO.	UMEX 100 SAMPLER NO.
SHAA-N-08	6/6/2017 09:44	6/7/2017 09:44	-30” Hg (+)	-17.5” Hg	AS01137	SFC00192	A245322
SHAA-S-08	6/6/2017 10:41	6/7/2017 10:41	-30” Hg	-12” Hg	AS00435	SFC00031	A245316

Weather conditions reported for the sample period by the weather station located at Stony Hollow Landfill are shown in the attached graphs.

The completed UMEx 100 samplers were transported by courier from the LJB offices to ALS Environmental’s Cincinnati, Ohio laboratory on June 7, 2017 and were analyzed by OSHA Method 1007 on June 8, 2017 per the three-day turnaround time previously arranged. The Summa canisters were transported by Federal Express second-day delivery, arriving at ALS Environmental’s Simi Valley, California Laboratory on June 9, 2017, and were analyzed by EPA Method TO-15 on June 13, 2017 and ASTM Standard Test Method D5504-12 on June 9, 2017. Table 2 provides the summarized sample results.

The EPA Method TO-15 found that only 2-butanone, 2-propanol, acetone, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethyl acetate, Freon 113, hexane, methylene chloride, tetrahydrofuran, toluene, trichloroethene and trichlorofluoromethane were detected above laboratory reporting limits; concentrations of all were well below the NIOSH RELs and ASTDR MRLs for these compounds. Propene was also detected above laboratory reporting limits; however, no NIOSH REL or ASTDR MRL has been established for the inhalation route (gaseous air) of this compound.

The ASTM Standard Test Method D5504-12 did not detect any compounds above the laboratory reporting limits.

The OSHA Method 1007 detected crotonaldehyde and formaldehyde above laboratory reporting limits; concentrations of both of these compounds were well below the NIOSH REL and ATSDR MRL. Acetaldehyde was detected above laboratory reporting limits; however, no NIOSH REL or ASTDR MRL has been established for the inhalation route (gaseous air) of this compound.

TABLE 2

ANALYTE	SHAA-N-08 <sup>1</sup> , ppbv	SHAA-S-08 <sup>1</sup> , ppbv	NIOSH REL <sup>2</sup> , ppbv	ATSDR MRL <sup>3</sup> , ppbv
EPA TO-15 (Summa canister)				
1,1,1-Trichloroethane	<0.23	<0.18	350,000	700
1,1,2,2-Tetrachloroethane	<0.19	<0.14	1,000	NA
1,1,2-Trichloroethane	<0.23	<0.18	10,000	NA
1,1-Dichloroethane	<0.32	<0.24	100,000	NA
1,1-Dichloroethene	<0.32	<0.24	200,000	20
1,2,4-Trichlorobenzene	<0.17	<0.13	5,000	NA
1,2,4-Trimethylbenzene	<0.26	<0.19	25,000	NA
1,2-Dibromoethane	<0.17	<0.12	45	NA
1,2-Dichlorobenzene	<0.21	<0.16	50,000	NA
1,2-Dichloroethane	<0.24	<0.24	1,000	600
1,2-Dichloropropane	<0.28	<0.21	75,000	7
1,3,5-Trimethylbenzene	<0.26	<0.19	25,000	NA
1,3-Butadiene	<0.58	<0.43	1,000	NA
1,3-Dichlorobenzene	<0.21	<0.16	50,000	NA
1,4-Dichlorobenzene	<0.21	<0.16	50,000	10
1,4-Dioxane	<0.35	<0.27	NA	30
2-Butanone	<b>0.23 (J)</b>	<b>0.23 (J)</b>	200	NA
2-Hexanone	<0.31	<0.23	1,000	NA
2-Propanol	<b>0.85 (J)</b>	<3.9	400,000	NA
4-Ethyltoluene	<0.26	<0.19	NA	NA
4-Methyl-2-pentanone	<0.31	<0.23	50,000	NA
Acetone	<b>3.6 (J)</b>	<b>3.2 (J)</b>	250,000	13,000

ANALYTE	SHAA-N-08 <sup>1</sup> , ppbv	SHAA-S-08 <sup>1</sup> , ppbv	NIOSH REL <sup>2</sup> , ppbv	ATSDR MRL <sup>3</sup> , ppbv
Benzene	<0.40	<0.30	100	3
Benzyl chloride	<0.25	<0.18	1,000	NA
Bromodichloromethane	<0.19	<0.14	NA	NA
Bromoform	<0.12	<0.092	500	NA
Bromomethane	<0.33	<0.25	20,000	5
Carbon disulfide	<4.1	<3.1	1,000	300
Carbon tetrachloride	<b>0.062 (J)</b>	<b>0.058 (J)</b>	2,000	30
Chlorobenzene	<0.28	<0.21	75,000	NA
Chloroethane	<0.48	<0.36	1,000,000	15,000
Chloroform	<0.26	<0.20	2,000	20
Chloromethane	<0.62	<b>0.16 (J)</b>	100,000	50
cis-1,2-Dichloroethene	<0.32	<0.24	200,000	NA
cis-1,3-Dichloropropene	<0.28	<0.21	1,000	7
Cumene	<0.26	<0.19	50,000	NA
Cyclohexane	<0.74	<0.56	300,000	NA
Dibromochloromethane	<0.15	<0.11	NA	NA
Dichlorodifluoromethane	<b>0.46</b>	<b>0.47</b>	1,000,000	NA
Ethyl acetate	<b>1.1</b>	<b>2.3</b>	400,000	NA
Ethylbenzene	<0.29	<0.22	100,000	60
Freon 113 (Trichlorotrifluoroethane)	<b>0.058 (J)</b>	<b>0.054 (J)</b>	1,000,000	NA
Freon 114 (1,2-Dichloro-1,1,2,2-tetrafluoroethane)	<0.18	<0.14	1,000,000	NA
Heptane (n-Heptane)	<0.31	<0.23	85,000	NA
Hexachlorobutadiene	<0.12	<0.090	20	NA
Hexane (n-Hexane)	<0.36	<b>0.15 (J)</b>	50,000	600
m,p-Xylene	<0.59	<0.44	100,000	50
Methylene chloride	<0.37	<b>&lt;0.094 (J)</b>	25,000	300
MTBE (Methyl tert-butyl ether)	<0.35	<0.26	2,000	NA
Naphthalene	<0.24	<0.18	10,000	1
o-Xylene	<0.29	<0.22	100,000	NA
Propene	<b>0.82</b>	<b>0.28 (J)</b>	NA	NA
Styrene	<0.30	<0.22	50,000	200
Tetrachloroethene	<0.19	<0.14	100,000	NA
Tetrahydrofuran	<0.43	<b>0.17 (J)</b>	200,000	NA
Toluene	<b>0.16 (J)</b>	<b>0.33</b>	100,000	1,000
trans-1,2-Dichloroethene	<0.32	<0.24	200,000	200
trans-1,3-Dichloropropene	<0.28	<0.21	1,000	7

ANALYTE	SHAA-N-08 <sup>1</sup> , ppbv	SHAA-S-08 <sup>1</sup> , ppbv	NIOSH REL <sup>2</sup> , ppbv	ATSDR MRL <sup>3</sup> , ppbv
Trichloroethene	<b>0.10 (J)</b>	<0.18	100,000	NA
Trichlorofluoromethane	<b>0.20 (J)</b>	<b>0.48</b>	1,000,000	NA
Vinyl acetate	<3.6	<2.7	4,000	10
Vinyl chloride	<0.50	<0.37	1,000	30
ASTM D5504-12 (Summa canister)				
2,5-Dimethylthiophene	13	9.6	NA	NA
2-Ethylthiophene	13	9.6	NA	NA
3-Methylthiophene	<13	<9.6	NA	NA
Carbon disulfide	<6.4	<4.8	1,000	300
Carbonyl sulfide	<13	<9.6	NA	NA
Diethyl disulfide	<6.4	<4.8	NA	NA
Diethyl sulfide	<13	<9.6	NA	NA
Dimethyl disulfide	<6.4	<4.8	NA	NA
Dimethyl sulfide	<13	<9.6	NA	NA
Ethyl mercaptan	<13	<9.6	NA	NA
Ethyl methyl sulfide	<13	<9.6	NA	NA
Hydrogen sulfide	<13	<9.6	NA	2
Isobutyl mercaptan	<13	<9.6	NA	NA
Isopropyl mercaptan	<13	<9.6	NA	NA
Methyl mercaptan	<13	<9.6	NA	NA
n-Butyl mercaptan	<13	<9.6	NA	NA
n-Propyl mercaptan	<13	<9.6	NA	NA
tert-Butyl mercaptan	<13	<9.6	NA	NA
Tetrahydrothiophene	<13	<9.6	NA	NA
Thiophene	<13	<9.6	NA	NA
OSHA 1007 (UMEx 100 sampler)				
Acetaldehyde	<b>2.4</b>	<1.5	NA	NA
Benzaldehyde	<1.0	<1.0	NA	NA
Butyraldehyde	<1.3	<1.3	NA	NA
Crotonaldehyde	<b>3.7</b>	<b>2.5</b>	2,000	NA
Formaldehyde <sup>(4)</sup>	<del>29</del> <b>4.6</b>	<del>21</del> <b>2.3</b>	16	8
Hexanaldehyde	<1.6	<1.6	NA	NA
Propionaldehyde	<1.9	<1.9	NA	NA

(1) Air sample duration is over a 24 hour period

(2) NIOSH REL is based on the time-weighted average concentration for an 8-10 hour workday during a 40 hour work week

(3) The ATSDR MRL are derived for three time periods: acute (1-14 days), intermediate (14-364 days) and chronic (>365 days)

(4) Formaldehyde results were corrected by ALS Cincinnati due to false positive peak being present; text that has been strikethrough are the results from the original report and are followed by the revised results

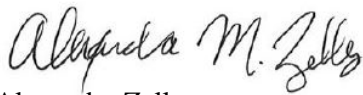
Mr. Peter Lucas: June 6, 2017 ambient air sampling  
June 20, 2017  
Page 5

**J = The result is an estimated concentration that is less than the method reporting limit but greater than the method detection limit**  
**NA = Limit not established for inhalation route (gaseous air samples)**

All ALS Environmental laboratory reports and chain of custody forms are attached. Please let me know if you have any questions.

Sincerely,

LJB Inc.

A handwritten signature in cursive script that reads "Alexandra M. Zelles".

Alexandra Zelles  
Environmental Scientist

▲ Air sample locations (revised by OEPA DFFO)

▭ Stony Hollow Landfill



0 225 450 900  
Feet

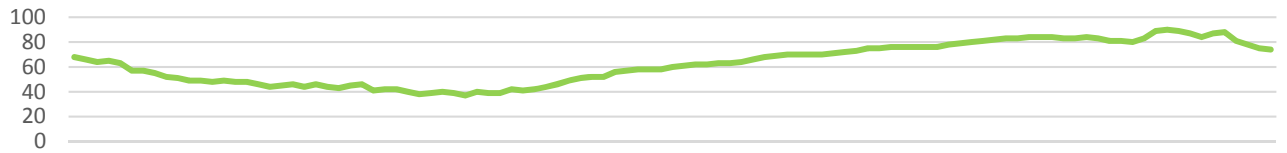
## > Waste Management Stony Hollow Landfill Ambient Air Sample Locations



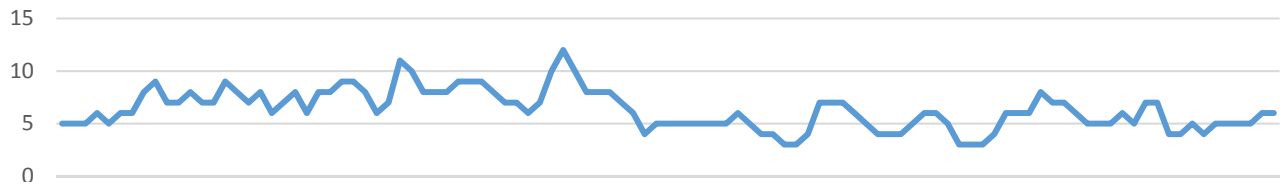
Temperature, °F



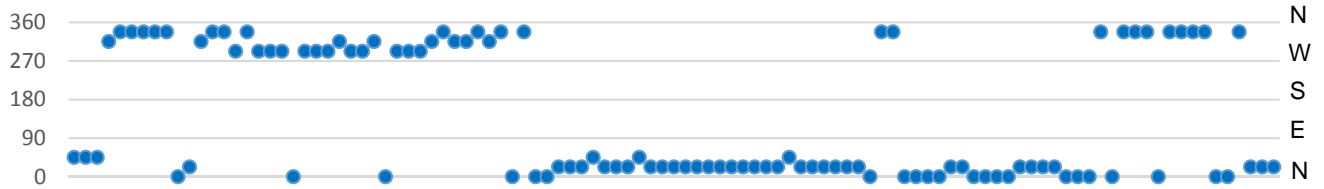
Relative Humidity, %



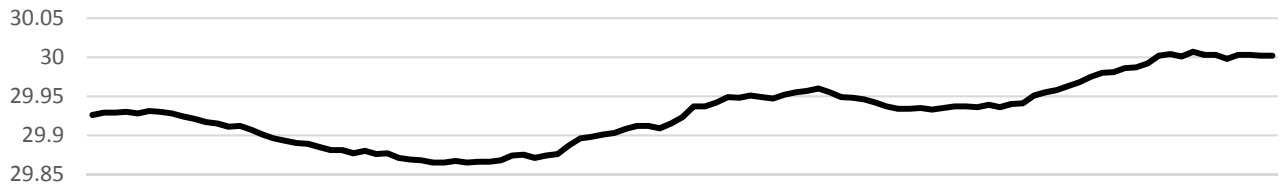
Wind Speed, mph



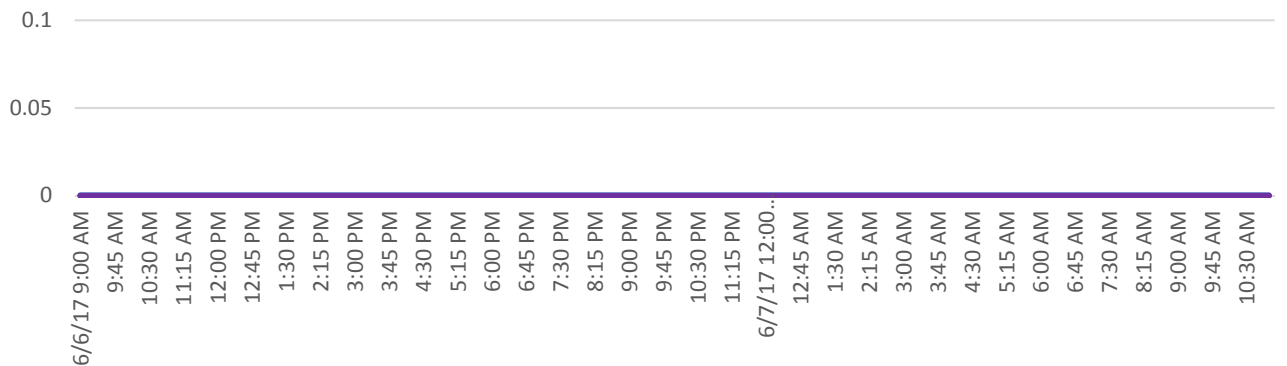
Wind Direction



Barometric Pressure, Inches Hg



Rain and Cumulative Rain, Inches







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Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

June 14, 2017

Peter Lucas  
Waste Management-Stony Hollow Landfill  
2460 S Gettysburg Ave.  
Dayton, OH 45417

**RE: Stony Hollow Landfill**

Dear Peter:

Enclosed are the results of the samples submitted to our laboratory on June 9, 2017. For your reference, these analyses have been assigned our service request number P1702784.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Samantha Henningsen at 11:47 am, Jun 14, 2017

For Kate Kaneko  
Project Manager



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
F: +1 805 526 7270  
[www.alsglobal.com](http://www.alsglobal.com)

Client: Waste Management-Stony Hollow Landfill  
Project: Stony Hollow Landfill

Service Request No: P1702784

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## CASE NARRATIVE

The samples were received intact under chain of custody on June 9, 2017 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

### Volatile Organic Compound Analysis

The samples were also analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The spike recovery of bromomethane in the Laboratory Control Sample (LCS) was outside the Laboratory generated control criteria. The recovery error equates to a potential high bias. However, the recovery in question was within the method criteria, therefore, the data quality is not significantly affected. No corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm">http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm</a>	2016036
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1177034
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-004
Pennsylvania DEP	<a href="http://www.depweb.state.pa.us/labs">http://www.depweb.state.pa.us/labs</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704413-16-7
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/environmental-lab-certification/">http://health.utah.gov/lab/environmental-lab-certification/</a>	CA01627201 6-6
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

# ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: Waste Management-Stony Hollow Landfill  
 Project ID: Stony Hollow Landfill

Service Request: P1702784

Date Received: 6/9/2017  
 Time Received: 10:45

ASTM D 5504-12 - Sulfur Can
TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	ASTM D 5504-12 - Sulfur Can	TO-15 - VOC Cans
SHAA-N-08	P1702784-001	Air	6/7/2017	09:44	AS01137	-7.52	3.60	X	X
SHAA-S-08	P1702784-002	Air	6/7/2017	10:41	AS00435	-5.02	3.76	X	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) <b>3 Day (50%)</b> 4 Day (35%) 5 Day (25%) 10 Day-Standard	ALS Project No. <b>PT 202784</b>
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Company Name & Address (Reporting Information) <b>LJB Inc. c/o Waste Management-Stony Hollow 2500 Newmark Drive Miamisburg, OH 45342</b>				Project Name <b>Stony Hollow Landfill</b>					ALS Contact:		<b>Comments</b> e.g. Actual Preservative or specific instructions
				Project Number					<b>Analysis Method</b>		
Project Manager <b>Alex Zelles</b>				P.O. # / Billing Information <b>Per Peter Lucas/WM</b>					TO-15  ASTM D 5504-12		
Phone <b>937-259-5022</b>		Fax		Sampler (Print & Sign) <i>Alex Zelles</i>							
Email Address for Result Reporting <b>azelles@libinc.com + smuelter@libinc.com</b>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
<b>SHAA-N-08</b>	①	<b>6/16/17 - 6/17/17</b>	<b>09:44 - 09:44</b>	<b>AS01137</b>	<b>SFL00192</b>	<b>-30" Hg (F)</b>	<b>-17.5" Hg</b>		X		
<b>SHAA-S-08</b>	②	<b>6/16/17 - 6/17/17</b>	<b>10:41 - 10:41</b>	<b>AS00485</b>	<b>SFL00081</b>	<b>-30" Hg</b>	<b>-12" Hg</b>		X		

<b>Report Tier Levels - please select</b>								<b>Project Requirements (MRLs, QAPP)</b>	
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____		EDD required Yes / No		Chain of Custody Seal: (Circle)			
Tier II (Results + QC Summaries) <b>X</b>		Tier IV (Data Validation Package) 10% Surcharge _____		Type: _____ Units: _____		<input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT			
Relinquished by: (Signature) <i>Alex Zelles</i>		Date: <b>6/17/17</b>	Time: <b>11:16 am</b>	Received by: (Signature) <i>Via FedEx (7793 1294 4329)</i>		Date:	Time:	<b>Cooler / Blank Temperature °C</b>  <i>6/17/17 0936</i>	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:		

**ALS Environmental  
Sample Acceptance Check Form**

Client: Waste Management-Stony Hollow Landfill

Work order: P1702784

Project: Stony Hollow Landfill

Sample(s) received on: 6/9/17

Date opened: 6/9/17

by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1702784-001.01	6.0 L Silonite Can					
P1702784-002.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-N-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-001

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS01137

Date Collected: 6/7/17  
 Time Collected: 09:44  
 Date Received: 6/9/17  
 Date Analyzed: 6/9/17  
 Time Analyzed: 15:04  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -7.52      Final Pressure (psig): 3.60

Canister Dilution Factor: 2.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	18	ND	13	
463-58-1	Carbonyl Sulfide	ND	31	ND	13	
74-93-1	Methyl Mercaptan	ND	25	ND	13	
75-08-1	Ethyl Mercaptan	ND	32	ND	13	
75-18-3	Dimethyl Sulfide	ND	32	ND	13	
75-15-0	Carbon Disulfide	ND	20	ND	6.4	
75-33-2	Isopropyl Mercaptan	ND	40	ND	13	
75-66-1	tert-Butyl Mercaptan	ND	47	ND	13	
107-03-9	n-Propyl Mercaptan	ND	40	ND	13	
624-89-5	Ethyl Methyl Sulfide	ND	40	ND	13	
110-02-1	Thiophene	ND	44	ND	13	
513-44-0	Isobutyl Mercaptan	ND	47	ND	13	
352-93-2	Diethyl Sulfide	ND	47	ND	13	
109-79-5	n-Butyl Mercaptan	ND	47	ND	13	
624-92-0	Dimethyl Disulfide	ND	25	ND	6.4	
616-44-4	3-Methylthiophene	ND	51	ND	13	
110-01-0	Tetrahydrothiophene	ND	46	ND	13	
638-02-8	2,5-Dimethylthiophene	ND	58	ND	13	
872-55-9	2-Ethylthiophene	ND	58	ND	13	
110-81-6	Diethyl Disulfide	ND	32	ND	6.4	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00435

Date Collected: 6/7/17  
 Time Collected: 10:41  
 Date Received: 6/9/17  
 Date Analyzed: 6/9/17  
 Time Analyzed: 15:26  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -5.02      Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	13	ND	9.6	
463-58-1	Carbonyl Sulfide	ND	23	ND	9.6	
74-93-1	Methyl Mercaptan	ND	19	ND	9.6	
75-08-1	Ethyl Mercaptan	ND	24	ND	9.6	
75-18-3	Dimethyl Sulfide	ND	24	ND	9.6	
75-15-0	Carbon Disulfide	ND	15	ND	4.8	
75-33-2	Isopropyl Mercaptan	ND	30	ND	9.6	
75-66-1	tert-Butyl Mercaptan	ND	35	ND	9.6	
107-03-9	n-Propyl Mercaptan	ND	30	ND	9.6	
624-89-5	Ethyl Methyl Sulfide	ND	30	ND	9.6	
110-02-1	Thiophene	ND	33	ND	9.6	
513-44-0	Isobutyl Mercaptan	ND	35	ND	9.6	
352-93-2	Diethyl Sulfide	ND	35	ND	9.6	
109-79-5	n-Butyl Mercaptan	ND	35	ND	9.6	
624-92-0	Dimethyl Disulfide	ND	18	ND	4.8	
616-44-4	3-Methylthiophene	ND	38	ND	9.6	
110-01-0	Tetrahydrothiophene	ND	34	ND	9.6	
638-02-8	2,5-Dimethylthiophene	ND	44	ND	9.6	
872-55-9	2-Ethylthiophene	ND	44	ND	9.6	
110-81-6	Diethyl Disulfide	ND	24	ND	4.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Waste Management-Stony Hollow Landfill  
**Client Sample ID:** Method Blank  
**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784  
 ALS Sample ID: P170609-MB

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/09/17  
 Time Analyzed: 08:17  
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Lab Control Sample

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170609-LCS

Test Code: ASTM D 5504-12

Instrument ID: Agilent 6890A/GC13/SCD

Analyst: Mike Conejo

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/09/17

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	1,000	916	92	75-148	
463-58-1	Carbonyl Sulfide	1,000	965	97	70-137	
74-93-1	Methyl Mercaptan	1,000	916	92	72-139	

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-N-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01137

Date Collected: 6/7/17

Date Received: 6/9/17

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.52      Final Pressure (psig): 3.60

Canister Dilution Factor: 2.55

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	<b>1.4</b>	1.3	0.36	<b>0.82</b>	0.74	0.21	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	1.3	0.43	<b>0.46</b>	0.26	0.088	
74-87-3	Chloromethane	ND	1.3	0.38	ND	0.62	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.3	0.48	ND	0.18	0.069	
75-01-4	Vinyl Chloride	ND	1.3	0.43	ND	0.50	0.17	
106-99-0	1,3-Butadiene	ND	1.3	0.56	ND	0.58	0.25	
74-83-9	Bromomethane	ND	1.3	0.48	ND	0.33	0.12	
75-00-3	Chloroethane	ND	1.3	0.43	ND	0.48	0.16	
67-64-1	Acetone	<b>8.4</b>	13	2.0	<b>3.6</b>	5.4	0.83	<b>J</b>
75-69-4	Trichlorofluoromethane (CFC 11)	<b>1.1</b>	1.3	0.43	<b>0.20</b>	0.23	0.077	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>2.1</b>	13	1.1	<b>0.85</b>	5.2	0.44	<b>J</b>
75-35-4	1,1-Dichloroethene	ND	1.3	0.43	ND	0.32	0.11	
75-09-2	Methylene Chloride	ND	1.3	0.43	ND	0.37	0.12	
76-13-1	Trichlorotrifluoroethane (CFC 113)	<b>0.45</b>	1.3	0.43	<b>0.058</b>	0.17	0.057	<b>J</b>
75-15-0	Carbon Disulfide	ND	13	0.38	ND	4.1	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.48	ND	0.32	0.12	
75-34-3	1,1-Dichloroethane	ND	1.3	0.41	ND	0.32	0.10	
1634-04-4	Methyl tert-Butyl Ether	ND	1.3	0.43	ND	0.35	0.12	
108-05-4	Vinyl Acetate	ND	13	1.7	ND	3.6	0.47	
78-93-3	2-Butanone (MEK)	<b>0.69</b>	13	0.54	<b>0.23</b>	4.3	0.18	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.41	ND	0.32	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-N-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01137

Date Collected: 6/7/17

Date Received: 6/9/17

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.52      Final Pressure (psig): 3.60

Canister Dilution Factor: 2.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	<b>3.9</b>	2.6	0.89	<b>1.1</b>	0.71	0.25	
110-54-3	n-Hexane	ND	1.3	0.38	ND	0.36	0.11	
67-66-3	Chloroform	ND	1.3	0.43	ND	0.26	0.089	
109-99-9	Tetrahydrofuran (THF)	ND	1.3	0.51	ND	0.43	0.17	
107-06-2	1,2-Dichloroethane	ND	1.3	0.41	ND	0.32	0.10	
71-55-6	1,1,1-Trichloroethane	ND	1.3	0.43	ND	0.23	0.079	
71-43-2	Benzene	ND	1.3	0.41	ND	0.40	0.13	
56-23-5	Carbon Tetrachloride	<b>0.39</b>	1.3	0.38	<b>0.062</b>	0.20	0.061	<b>J</b>
110-82-7	Cyclohexane	ND	2.6	0.74	ND	0.74	0.21	
78-87-5	1,2-Dichloropropane	ND	1.3	0.41	ND	0.28	0.088	
75-27-4	Bromodichloromethane	ND	1.3	0.38	ND	0.19	0.057	
79-01-6	Trichloroethene	<b>0.55</b>	1.3	0.36	<b>0.10</b>	0.24	0.066	<b>J</b>
123-91-1	1,4-Dioxane	ND	1.3	0.41	ND	0.35	0.11	
142-82-5	n-Heptane	ND	1.3	0.43	ND	0.31	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.36	ND	0.28	0.079	
108-10-1	4-Methyl-2-pentanone	ND	1.3	0.41	ND	0.31	0.10	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.41	ND	0.28	0.090	
79-00-5	1,1,2-Trichloroethane	ND	1.3	0.41	ND	0.23	0.075	
108-88-3	Toluene	<b>0.62</b>	1.3	0.43	<b>0.16</b>	0.34	0.12	<b>J</b>
591-78-6	2-Hexanone	ND	1.3	0.41	ND	0.31	0.10	
124-48-1	Dibromochloromethane	ND	1.3	0.41	ND	0.15	0.048	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-N-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-001

Test Code: EPA TO-15

Date Collected: 6/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/9/17

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01137

Initial Pressure (psig): -7.52      Final Pressure (psig): 3.60

Canister Dilution Factor: 2.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	1.3	0.41	ND	0.17	0.053	
127-18-4	Tetrachloroethene	ND	1.3	0.36	ND	0.19	0.053	
108-90-7	Chlorobenzene	ND	1.3	0.41	ND	0.28	0.089	
100-41-4	Ethylbenzene	ND	1.3	0.41	ND	0.29	0.094	
179601-23-1	m,p-Xylenes	ND	2.6	0.77	ND	0.59	0.18	
75-25-2	Bromoform	ND	1.3	0.38	ND	0.12	0.037	
100-42-5	Styrene	ND	1.3	0.38	ND	0.30	0.090	
95-47-6	o-Xylene	ND	1.3	0.38	ND	0.29	0.088	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.38	ND	0.19	0.056	
98-82-8	Cumene	ND	1.3	0.38	ND	0.26	0.078	
622-96-8	4-Ethyltoluene	ND	1.3	0.41	ND	0.26	0.083	
108-67-8	1,3,5-Trimethylbenzene	ND	1.3	0.41	ND	0.26	0.083	
95-63-6	1,2,4-Trimethylbenzene	ND	1.3	0.38	ND	0.26	0.078	
100-44-7	Benzyl Chloride	ND	1.3	0.28	ND	0.25	0.054	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.38	ND	0.21	0.064	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.36	ND	0.21	0.059	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.38	ND	0.21	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.41	ND	0.17	0.055	
91-20-3	Naphthalene	ND	1.3	0.46	ND	0.24	0.088	
87-68-3	Hexachlorobutadiene	ND	1.3	0.36	ND	0.12	0.033	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002

Test Code: EPA TO-15

Date Collected: 6/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/9/17

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00435

Initial Pressure (psig): -5.02      Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	<b>0.49</b>	0.96	0.27	<b>0.28</b>	0.56	0.16	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	0.96	0.32	<b>0.47</b>	0.19	0.066	
74-87-3	Chloromethane	<b>0.33</b>	0.96	0.29	<b>0.16</b>	0.46	0.14	<b>J</b>
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.96	0.36	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.96	0.32	ND	0.37	0.13	
106-99-0	1,3-Butadiene	ND	0.96	0.42	ND	0.43	0.19	
74-83-9	Bromomethane	ND	0.96	0.36	ND	0.25	0.093	
75-00-3	Chloroethane	ND	0.96	0.32	ND	0.36	0.12	
67-64-1	Acetone	<b>7.6</b>	9.6	1.5	<b>3.2</b>	4.0	0.62	<b>J</b>
75-69-4	Trichlorofluoromethane (CFC 11)	<b>2.7</b>	0.96	0.32	<b>0.48</b>	0.17	0.058	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.6	0.80	ND	3.9	0.33	
75-35-4	1,1-Dichloroethene	ND	0.96	0.32	ND	0.24	0.082	
75-09-2	Methylene Chloride	<b>0.32</b>	0.96	0.32	<b>0.094</b>	0.28	0.094	<b>J</b>
76-13-1	Trichlorotrifluoroethane (CFC 113)	<b>0.41</b>	0.96	0.32	<b>0.054</b>	0.12	0.042	<b>J</b>
75-15-0	Carbon Disulfide	ND	9.6	0.29	ND	3.1	0.092	
156-60-5	trans-1,2-Dichloroethene	ND	0.96	0.36	ND	0.24	0.092	
75-34-3	1,1-Dichloroethane	ND	0.96	0.31	ND	0.24	0.076	
1634-04-4	Methyl tert-Butyl Ether	ND	0.96	0.32	ND	0.26	0.090	
108-05-4	Vinyl Acetate	ND	9.6	1.2	ND	2.7	0.35	
78-93-3	2-Butanone (MEK)	<b>0.69</b>	9.6	0.40	<b>0.23</b>	3.2	0.14	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.96	0.31	ND	0.24	0.077	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00435

Date Collected: 6/7/17

Date Received: 6/9/17

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.02      Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	<b>8.2</b>	1.9	0.67	<b>2.3</b>	0.53	0.19	
110-54-3	n-Hexane	<b>0.53</b>	0.96	0.29	<b>0.15</b>	0.27	0.081	<b>J</b>
67-66-3	Chloroform	ND	0.96	0.32	ND	0.20	0.067	
109-99-9	Tetrahydrofuran (THF)	<b>0.49</b>	0.96	0.38	<b>0.17</b>	0.32	0.13	<b>J</b>
107-06-2	1,2-Dichloroethane	ND	0.96	0.31	ND	0.24	0.076	
71-55-6	1,1,1-Trichloroethane	ND	0.96	0.32	ND	0.18	0.060	
71-43-2	Benzene	ND	0.96	0.31	ND	0.30	0.096	
56-23-5	Carbon Tetrachloride	<b>0.36</b>	0.96	0.29	<b>0.058</b>	0.15	0.046	<b>J</b>
110-82-7	Cyclohexane	ND	1.9	0.55	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.96	0.31	ND	0.21	0.066	
75-27-4	Bromodichloromethane	ND	0.96	0.29	ND	0.14	0.043	
79-01-6	Trichloroethene	ND	0.96	0.27	ND	0.18	0.050	
123-91-1	1,4-Dioxane	ND	0.96	0.31	ND	0.27	0.085	
142-82-5	n-Heptane	ND	0.96	0.32	ND	0.23	0.079	
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.27	ND	0.21	0.059	
108-10-1	4-Methyl-2-pentanone	ND	0.96	0.31	ND	0.23	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.31	ND	0.21	0.067	
79-00-5	1,1,2-Trichloroethane	ND	0.96	0.31	ND	0.18	0.056	
108-88-3	Toluene	<b>1.2</b>	0.96	0.32	<b>0.33</b>	0.25	0.086	
591-78-6	2-Hexanone	ND	0.96	0.31	ND	0.23	0.075	
124-48-1	Dibromochloromethane	ND	0.96	0.31	ND	0.11	0.036	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00435

Date Collected: 6/7/17

Date Received: 6/9/17

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.02      Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	0.96	0.31	ND	0.12	0.040	
127-18-4	Tetrachloroethene	ND	0.96	0.27	ND	0.14	0.039	
108-90-7	Chlorobenzene	ND	0.96	0.31	ND	0.21	0.066	
100-41-4	Ethylbenzene	ND	0.96	0.31	ND	0.22	0.070	
179601-23-1	m,p-Xylenes	ND	1.9	0.57	ND	0.44	0.13	
75-25-2	Bromoform	ND	0.96	0.29	ND	0.092	0.028	
100-42-5	Styrene	ND	0.96	0.29	ND	0.22	0.067	
95-47-6	o-Xylene	ND	0.96	0.29	ND	0.22	0.066	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.96	0.29	ND	0.14	0.042	
98-82-8	Cumene	ND	0.96	0.29	ND	0.19	0.058	
622-96-8	4-Ethyltoluene	ND	0.96	0.31	ND	0.19	0.062	
108-67-8	1,3,5-Trimethylbenzene	ND	0.96	0.31	ND	0.19	0.062	
95-63-6	1,2,4-Trimethylbenzene	ND	0.96	0.29	ND	0.19	0.058	
100-44-7	Benzyl Chloride	ND	0.96	0.21	ND	0.18	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.96	0.29	ND	0.16	0.048	
106-46-7	1,4-Dichlorobenzene	ND	0.96	0.27	ND	0.16	0.044	
95-50-1	1,2-Dichlorobenzene	ND	0.96	0.29	ND	0.16	0.048	
120-82-1	1,2,4-Trichlorobenzene	ND	0.96	0.31	ND	0.13	0.041	
91-20-3	Naphthalene	ND	0.96	0.34	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.96	0.27	ND	0.090	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Method Blank

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Method Blank

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Method Blank

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/13/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** Waste Management-Stony Hollow Landfill  
**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister(s)  
 Test Notes:

Date(s) Collected: 6/7/17  
 Date(s) Received: 6/9/17  
 Date(s) Analyzed: 6/13/17

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P170613-MB	<b>98</b>	<b>100</b>	<b>102</b>	70-130	
Lab Control Sample	P170613-LCS	<b>98</b>	<b>99</b>	<b>105</b>	70-130	
SHAA-N-08	P1702784-001	<b>100</b>	<b>99</b>	<b>103</b>	70-130	
SHAA-S-08	P1702784-002	<b>101</b>	<b>98</b>	<b>103</b>	70-130	
SHAA-S-08	P1702784-002DUP	<b>101</b>	<b>98</b>	<b>104</b>	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Lab Control Sample

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/13/17

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	186	89	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	183	87	68-109	
74-87-3	Chloromethane	210	182	87	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	171	81	66-114	
75-01-4	Vinyl Chloride	210	187	89	61-125	
106-99-0	1,3-Butadiene	210	242	115	62-144	
74-83-9	Bromomethane	210	264	126	73-123	L
75-00-3	Chloroethane	210	186	89	69-122	
67-64-1	Acetone	1,060	897	85	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	174	83	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	373	88	66-121	
75-35-4	1,1-Dichloroethene	213	179	84	76-118	
75-09-2	Methylene Chloride	212	182	86	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	174	82	73-114	
75-15-0	Carbon Disulfide	213	182	85	57-102	
156-60-5	trans-1,2-Dichloroethene	213	178	84	74-123	
75-34-3	1,1-Dichloroethane	212	170	80	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	173	81	69-113	
108-05-4	Vinyl Acetate	1,060	948	89	76-128	
78-93-3	2-Butanone (MEK)	212	181	85	63-127	
156-59-2	cis-1,2-Dichloroethene	212	173	82	72-117	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Lab Control Sample

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	378	89	68-127	
110-54-3	n-Hexane	213	170	80	55-116	
67-66-3	Chloroform	212	176	83	70-109	
109-99-9	Tetrahydrofuran (THF)	213	176	83	72-113	
107-06-2	1,2-Dichloroethane	212	170	80	69-113	
71-55-6	1,1,1-Trichloroethane	212	177	83	72-115	
71-43-2	Benzene	212	168	79	65-107	
56-23-5	Carbon Tetrachloride	213	187	88	71-113	
110-82-7	Cyclohexane	425	363	85	71-115	
78-87-5	1,2-Dichloropropane	212	172	81	71-115	
75-27-4	Bromodichloromethane	214	191	89	75-118	
79-01-6	Trichloroethene	212	178	84	68-114	
123-91-1	1,4-Dioxane	213	180	85	81-131	
142-82-5	n-Heptane	213	179	84	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	199	95	77-126	
108-10-1	4-Methyl-2-pentanone	213	195	92	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	212	100	79-125	
79-00-5	1,1,2-Trichloroethane	212	180	85	75-119	
108-88-3	Toluene	212	179	84	59-118	
591-78-6	2-Hexanone	213	187	88	69-129	
124-48-1	Dibromochloromethane	213	205	96	74-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** Lab Control Sample

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P170613-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
106-93-4	1,2-Dibromoethane	212	194	92	73-131	
127-18-4	Tetrachloroethene	213	175	82	65-130	
108-90-7	Chlorobenzene	212	167	79	68-120	
100-41-4	Ethylbenzene	212	184	87	68-122	
179601-23-1	m,p-Xylenes	424	346	82	68-123	
75-25-2	Bromoform	212	225	106	69-130	
100-42-5	Styrene	212	189	89	71-133	
95-47-6	o-Xylene	212	176	83	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	184	87	69-130	
98-82-8	Cumene	212	184	87	70-123	
622-96-8	4-Ethyltoluene	212	185	87	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	178	84	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	181	85	67-129	
100-44-7	Benzyl Chloride	212	246	116	79-138	
541-73-1	1,3-Dichlorobenzene	212	187	88	65-136	
106-46-7	1,4-Dichlorobenzene	213	173	81	66-141	
95-50-1	1,2-Dichlorobenzene	212	185	87	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	213	100	64-134	
91-20-3	Naphthalene	214	227	106	62-136	
87-68-3	Hexachlorobutadiene	213	187	88	60-133	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002DUP

Test Code: EPA TO-15

Date Collected: 6/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/9/17

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00435

Initial Pressure (psig): -5.02

Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Propene	0.489	0.284	0.508	0.295	0.4985	4	25	J
Dichlorodifluoromethane (CFC 12)	2.34	0.473	2.48	0.501	2.41	6	25	
Chloromethane	0.330	0.160	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	7.64	3.22	7.97	3.36	7.805	4	25	J
Trichlorofluoromethane	2.68	0.477	2.80	0.499	2.74	4	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.325	0.0935	0.332	0.0957	0.3285	2	25	J
Trichlorotrifluoroethane	0.411	0.0536	0.453	0.0591	0.432	10	25	J
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.686	0.233	0.739	0.251	0.7125	7	25	J
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.



# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002DUP

Test Code: EPA TO-15

Date Collected: 6/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/9/17

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00435

Initial Pressure (psig): -5.02

Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Ethyl Acetate	8.17	2.27	8.48	2.35	8.325	4	25	
n-Hexane	0.533	0.151	0.560	0.159	0.5465	5	25	J
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	0.495	0.168	0.521	0.177	0.508	5	25	J
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	ND	ND	ND	ND	-	-	25	
Carbon Tetrachloride	0.363	0.0577	0.390	0.0620	0.3765	7	25	J
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	0.279	0.0519	-	-	25	J
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.24	0.329	1.29	0.343	1.265	4	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

**Client:** Waste Management-Stony Hollow Landfill

**Client Sample ID:** SHAA-S-08

**Client Project ID:** Stony Hollow Landfill

ALS Project ID: P1702784

ALS Sample ID: P1702784-002DUP

Test Code: EPA TO-15

Date Collected: 6/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/9/17

Analyst: Wida Ang

Date Analyzed: 6/13/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00435

Initial Pressure (psig): -5.02

Final Pressure (psig): 3.76

Canister Dilution Factor: 1.91

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.



20-Jun-2017

Alex Zelles  
Waste Management  
2460 S. Gettysburg Rd  
Dayton, OH 45417

Tel: (937) 356-6204  
Fax:

Re: Stony Hollow Landfill

Work Order: **1706218**

Dear Alex,

ALS Environmental received 2 samples on 07-Jun-2017 for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 7.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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**Client:** Waste Management  
**Project:** Stony Hollow Landfill  
**Work Order:** 1706218

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1706218-01	SHAA-N-08	Air		6/7/2017	6/7/2017	<input type="checkbox"/>
1706218-02	SHAA-S-08	Air		6/7/2017	6/7/2017	<input type="checkbox"/>

---

**Client:** Waste Management  
**Project:** Stony Hollow Landfill  
**Work Order:** 1706218

---

**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

Compound identification is based upon retention time matching only. Any compound with a similar retention time will interfere.

Samples were prepared and analyzed by the analytical method and the laboratory's applicable standard operating procedure listed below:

- IH-001- "Determination of Analytes Using NIOSH and OSHA Methods Using Gas Chromatography."
- IH-002- "Determination of Suspended Particulates in the Atmosphere Using Various Media"
- IH-003- "Determination of Suspended Particulates Not Otherwise Regulated (Total and Respirable)."
- IH-004- "Determination of Analytes by NIOSH and OSHA Methods Using Liquid Chromatography."
- IH-005- "Benzene-Soluble Fraction and Total Particulate (Asphalt Fume)."
- IH-006- "Methods IO-3.1 and IO-3.4 Modified for Metals Preparation and Analysis for Suspended Particulates."
- IH-196- "Carbon Black by OSHA 196."
- IH-6009- "Determination of Mercury in Industrial Hygiene Samples by Manual Cold Vapor Atomic Absorption Spectroscopy."
- ENV-6010B- "Determination of Trace Metals in Solution by Inductively Coupled Plasma-Atomic Emission Spectroscopy by EPA Method 6010B Non-VAP."
- IH-7300 modified- "Elements by ICP."

This report was revised as follows: formaldehyde results were corrected due to false positive peak being present.

**Client:** Waste Management  
**Project:** Stony Hollow Landfill

**Work Order:** 1706218

**Analytical Results**

**Lab ID:** 1706218-01A  
**Client Sample ID:** SHAA-N-08

**Collection Date:** 6/7/2017  
**Matrix:** AIR

**Analyses**

<b>ALDEHYDE(S) BY OSHA 1007 MOD.</b>		Method: <b>O1007</b>	Time (Min): <b>1440</b>	Analyst: <b>JMB</b>
Date Analyzed: 6/8/2017 11:31		Reporting Limit		
	µg/sample	µg/sample	ppm	
<b>Acetaldehyde</b>	<b>0.14</b>	<b>0.090</b>	<b>0.0024</b>	
Benzaldehyde	ND	0.090	<0.0010	
Butyraldehyde	ND	0.090	<0.0013	
<b>Crotonaldehyde</b>	<b>0.15</b>	<b>0.090</b>	<b>0.0037</b>	
<b>Formaldehyde</b>	<b>0.23</b>	<b>0.090</b>	<b>0.0046</b>	
Hexanaldehyde	ND	0.090	<0.0016	
Propionaldehyde	ND	0.090	<0.0019	

**Lab ID:** 1706218-02A  
**Client Sample ID:** SHAA-S-08

**Collection Date:** 6/7/2017  
**Matrix:** AIR

**Analyses**

<b>ALDEHYDE(S) BY OSHA 1007 MOD.</b>		Method: <b>O1007</b>	Time (Min): <b>1440</b>	Analyst: <b>JMB</b>
Date Analyzed: 6/8/2017 11:31		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.090	<0.0015	
Benzaldehyde	ND	0.090	<0.0010	
Butyraldehyde	ND	0.090	<0.0013	
<b>Crotonaldehyde</b>	<b>0.10</b>	<b>0.090</b>	<b>0.0025</b>	
<b>Formaldehyde</b>	<b>0.12</b>	<b>0.090</b>	<b>0.0023</b>	
Hexanaldehyde	ND	0.090	<0.0016	
Propionaldehyde	ND	0.090	<0.0019	

**Note:**

**Client:** Waste Management  
**Work Order:** 1706218  
**Project:** Stony Hollow Landfill

**QC BATCH REPORT**

Batch ID: **43631** Instrument ID: **HPLC2** Method: **O1007**

MBLK		Sample ID: <b>MBLK-43631-43631</b>			Units: <b>µg/sample</b>		Analysis Date: <b>6/8/2017 11:31 AM</b>			
Client ID:		Run ID: <b>HPLC2_170608A</b>			SeqNo: <b>1521166</b>		Prep Date: <b>6/8/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.045								
Benzaldehyde	ND	0.045								
Butyraldehyde	ND	0.045								
Crotonaldehyde	ND	0.045								
Formaldehyde	ND	0.045								
Hexanaldehyde	ND	0.045								
Propionaldehyde	ND	0.045								

LCS		Sample ID: <b>LCS-43631-43631</b>			Units: <b>µg/sample</b>		Analysis Date: <b>6/8/2017 11:31 AM</b>			
Client ID:		Run ID: <b>HPLC2_170608A</b>			SeqNo: <b>1521167</b>		Prep Date: <b>6/8/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.463	0.045	1.5	0	97.5	70-130	0			
Benzaldehyde	1.404	0.045	1.5	0	93.6	70-130	0			
Butyraldehyde	1.39	0.045	1.5	0	92.7	70-130	0			
Crotonaldehyde	1.415	0.045	1.5	0	94.3	70-130	0			
Formaldehyde	1.427	0.045	1.5	0	95.2	70-130	0			
Hexanaldehyde	1.472	0.045	1.5	0	98.1	70-130	0			
Propionaldehyde	1.41	0.045	1.5	0	94	70-130	0			

LCSD		Sample ID: <b>LCSD-43631-43631</b>			Units: <b>µg/sample</b>		Analysis Date: <b>6/8/2017 11:31 AM</b>			
Client ID:		Run ID: <b>HPLC2_170608A</b>			SeqNo: <b>1521172</b>		Prep Date: <b>6/8/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.477	0.045	1.5	0	98.5	70-130	1.463	1	20	
Benzaldehyde	1.42	0.045	1.5	0	94.7	70-130	1.404	1.19	20	
Butyraldehyde	1.41	0.045	1.5	0	94	70-130	1.39	1.38	20	
Crotonaldehyde	1.433	0.045	1.5	0	95.5	70-130	1.415	1.27	20	
Formaldehyde	1.425	0.045	1.5	0	95	70-130	1.427	0.154	20	
Hexanaldehyde	1.438	0.045	1.5	0	95.9	70-130	1.472	2.34	20	
Propionaldehyde	1.43	0.045	1.5	0	95.3	70-130	1.41	1.38	20	

The following samples were analyzed in this batch: 1706218-01A 1706218-02A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Waste Management  
**Project:** Stony Hollow Landfill  
**WorkOrder:** 1706218

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
μg/sample	



Sample Receipt Checklist

Client Name: STONYHOLLOWLANDFILL-DAY

Date/Time Received: 07-Jun-17 00:00

Work Order: 1706218

Received by: JNW

Checklist completed by: J an Wilcox 07-Jun-17  
eSignature Date

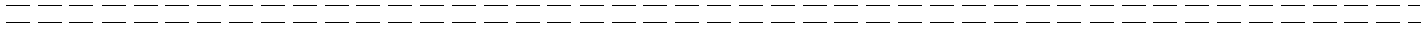
Reviewed by: Rob Nieman 08-Jun-17  
eSignature Date

Matrices:

Carrier name: ALSHN

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

1706218



ANALYTICAL SERVICES REQUEST AND CHAIN OF CUSTODY

Send to LJB:

Invoice  Results

Send to:

Invoice  Results

Contact: Alex Zelles

Contact: Peter Lucas

Address/Email:

azelles@ljbinc.com + smuelter@ljbinc.com  
2500 Newmark Drive  
Miamisburg, OH 45342

Address/Email:

plucas2@wm.com

Phone: 937-259-5022 or 630-632-5859

Phone:

Fax:

Fax:

LJB job #:

P.O. #: Per Peter Lucas/WM

Sample site: Stony Hollow Landfill

Sampled by: Alex Zelles

Signature: *Alex Zelles*

Rush

Standard turnaround

Need by: 3-day turnaround

Phone results

Fax results

Email results

Special instructions:

Analysis Requested

Remarks:

OSHA-1007

Sample ID	Date	Time	Matrix	Comp	Grab	# Btls
SHAA-N-08	6/6/17- 6/7/17	0944- 0944	Air		X	1
SHAA-S-08	6/6/17- 6/7/17	1041- 1047	Air		X	1

ALS LAB USE ONLY

COOLER TEMP: °C pH ADJUSTMENTS:

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS  
STD MAIL PRY MAIL ALS COURIER OTHER:

CUSTODY SEALS: NONE COOLER PACKAGE SAMPLES

EQUIP. RETURNED:

Relinquished by: *Alex Zelles*

Date/time: 6/7/17 11:23 AM

Received by: *[Signature]*

Date/time: 6/7/17

Relinquished by: *[Signature]*

Date/time: 6/7/17 4:00

Received by: *[Signature]*

Date/time: 6/7/17

Relinquished by:

Date/time:

Received at lab by:

Date/time: