



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

July 18, 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 – July 6-7, 2017
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 as required by the Director's Final Findings and Orders, dated May 3, 2017. DFFO Order No. 9 requires air monitoring on the 1 in 6-day schedule beginning seven (7) days following the installation of LFG wells within the five (5) acre area (a.k.a. next phase of the proposed temporary cap area). LFG well installation in this area was completed on June 27, 2017 and 1 in 6-day monitoring began on July 6, 2017. The 24-hour ambient air sampling was performed between July 6-7, 2017 and ALS Environmental performed the USEPA Method TO-15, ASTM D 5504-12, and OSHA 1007 analyses.

Please find attached to this submittal letter the LJB ambient air monitoring report, which includes the available 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 Chronic MRLs.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Peter C. Lucas'.

Peter Lucas, P.E.
District Engineer

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



July 18, 2017

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

Via email: plucas2@wm.com

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

Dear Mr. Lucas:

On July 6 through July 7, 2017 LJB Inc. collected two 24-hour ambient air samples at the Waste Management Stony Hollow Landfill. The samples included SHAA-N-18, collected from inside the northeast fence line of the landfill, and SHAA-S-18, collected from inside the southeast fence line of the landfill. One Summa canister and one UMEEx 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-18	7/6/2017 09:38	7/7/2017 09:38	-30” Hg (+)	-13” Hg	AS00947	SFC00038	A246651
SHAA-S-18	7/6/2017 10:04	7/7/2017 10:04	-30” Hg (+)	-10” Hg	AS00064	SFC00080	A246650

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

The completed UMEEx 100 samplers were transported by courier from the LJB offices to ALS Environmental’s Cincinnati, Ohio laboratory on July 7, 2017 and were analyzed by OSHA Method 1007 on July 13, 2017. The Summa canisters were transported by Federal Express second-day delivery, arriving at ALS Environmental’s Simi Valley, California Laboratory on July 10, 2017, and were analyzed by EPA Method TO-15 and ASTM Standard Test Method D5504-12 on July 10, 2017. Table 2 provides the summarized sample results.

The EPA Method TO-15 found that 2-butanone, 2-propanol, acetone, benzene, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethyl acetate, ethylbenzene, Freon 113, heptane, hexane, m,p-xylene, methylene chloride, naphthalene, o-xylene, tetrahydrofuran, toluene and trichlorofluoromethane

were detected above laboratory reporting limits; concentrations of all were well below the NIOSH RELs and ASTDR chronic MRLs for these compounds.

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

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

TABLE 2

ANALYTE	SHAA-N-18 ¹ , ppbv	SHAA-S-18 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR Chronic MRL ³ , ppbv
EPA TO-15 (Summa canister)				
1,1,1-Trichloroethane	<0.20	<0.17	350,000	700
1,1,2,2-Tetrachloroethane	<0.16	<0.13	1,000	NA
1,1,2-Trichloroethane	<0.20	<0.17	10,000	NA
1,1-Dichloroethane	<0.27	<0.23	100,000	NA
1,1-Dichloroethene	<0.28	<0.23	200,000	20
1,2,4-Trichlorobenzene	<0.15	<0.12	5,000	NA
1,2,4-Trimethylbenzene	<0.22	<0.19	25,000	NA
1,2-Dibromoethane	<0.14	<0.12	45	NA
1,2-Dichlorobenzene	<0.18	<0.15	50,000	NA
1,2-Dichloroethane	<0.27	<0.23	1,000	600
1,2-Dichloropropane	<0.24	<0.20	75,000	7
1,3,5-Trimethylbenzene	<0.22	<0.19	25,000	NA
1,3-Butadiene	<0.50	<0.42	1,000	NA
1,3-Dichlorobenzene	<0.18	<0.15	50,000	NA
1,4-Dichlorobenzene	<0.18	<0.15	50,000	10
1,4-Dioxane	<0.31	<0.26	NA	30
2-Butanone	0.47 (J)	0.40 (J)	200	NA
2-Hexanone	<0.27	<0.23	1,000	NA
2-Propanol	0.46 (J)	0.42 (J)	400,000	NA
4-Ethyltoluene	<0.22	<0.19	NA	NA
4-Methyl-2-pentanone	<0.27	<0.23	50,000	NA
Acetone	3.6 (J)	3.4 (J)	250,000	13,000
Benzene	0.26 (J)	0.23 (J)	100	3
Benzyl chloride	<0.21	<0.18	1,000	NA
Bromodichloromethane	<0.17	<0.14	NA	NA

ANALYTE	SHAA-N-18 ¹ , ppbv	SHAA-S-18 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR Chronic MRL ³ , ppbv
Bromoform	<0.11	<0.089	500	NA
Bromomethane	<0.28	<0.24	20,000	5
Carbon disulfide	<3.5	<3.0	1,000	300
Carbon tetrachloride	0.065 (J)	0.064 (J)	2,000	30
Chlorobenzene	<0.24	<0.20	75,000	NA
Chloroethane	<0.42	<0.35	1,000,000	15,000
Chloroform	<0.23	<0.19	2,000	20
Chloromethane	0.16 (J)	0.15 (J)	100,000	50
cis-1,2-Dichloroethene	<0.28	<0.23	200,000	NA
cis-1,3-Dichloropropene	<0.24	<0.20	1,000	7
Cumene	<0.22	<0.19	50,000	NA
Cyclohexane	<0.64	<0.54	300,000	NA
Dibromochloromethane	<0.13	<0.11	NA	NA
Dichlorodifluoromethane	0.44	0.45	1,000,000	NA
Ethyl acetate	0.22 (J)	<0.51	400,000	NA
Ethylbenzene	0.092 (J)	0.094 (J)	100,000	60
Freon 113 (Trichlorotrifluoroethane)	0.057 (J)	0.064 (J)	1,000,000	NA
Freon 114 (1,2-Dichloro-1,1,2,2-tetrafluoroethane)	<0.16	<0.13	1,000,000	NA
Heptane (n-Heptane)	<0.27	0.095 (J)	85,000	NA
Hexachlorobutadiene	<0.10	<0.087	20	NA
Hexane (n-Hexane)	0.15 (J)	0.13 (J)	50,000	600
m,p-Xylene	0.21 (J)	0.22 (J)	100,000	50
Methylene chloride	0.18 (J)	0.18 (J)	25,000	300
MTBE (Methyl tert-butyl ether)	<0.31	<0.26	2,000	NA
Naphthalene	0.72 (B)	0.15 (J, B)	10,000	1
o-Xylene	<0.25	0.075 (J)	100,000	NA
Propene	<0.64	<0.54	NA	NA
Styrene	<0.26	<0.22	50,000	200
Tetrachloroethene	<0.16	<0.14	100,000	NA
Tetrahydrofuran	0.20 (J)	0.24 (J)	200,000	NA
Toluene	0.50	0.81	100,000	1,000
trans-1,2-Dichloroethene	<0.28	<0.23	200,000	200
trans-1,3-Dichloropropene	<0.24	<0.20	1,000	7
Trichloroethene	<0.21	<0.17	100,000	NA
Trichlorofluoromethane	0.25	0.25	1,000,000	NA
Vinyl acetate	<3.1	<2.6	4,000	10

ANALYTE	SHAA-N-18 ¹ , ppbv	SHAA-S-18 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR Chronic MRL ³ , ppbv
Vinyl chloride	<0.43	<0.36	1,000	30
ASTM D5504-12 (Summa canister)				
2,5-Dimethylthiophene	<11	<9.3	NA	NA
2-Ethylthiophene	<11	<9.3	NA	NA
3-Methylthiophene	<11	<9.3	NA	NA
Carbon disulfide	<5.5	<4.6	1,000	300
Carbonyl sulfide	<11	<9.3	NA	NA
Diethyl disulfide	<5.5	<4.6	NA	NA
Diethyl sulfide	<11	<9.3	NA	NA
Dimethyl disulfide	<5.5	<4.6	NA	NA
Dimethyl sulfide	<11	<9.3	NA	NA
Ethyl mercaptan	<11	<9.3	NA	NA
Ethyl methyl sulfide	<11	<9.3	NA	NA
Hydrogen sulfide	<11	<9.3	NA	20
Isobutyl mercaptan	<11	<9.3	NA	NA
Isopropyl mercaptan	<11	<9.3	NA	NA
Methyl mercaptan	<11	<9.3	NA	NA
n-Butyl mercaptan	<11	<9.3	NA	NA
n-Propyl mercaptan	<11	<9.3	NA	NA
tert-Butyl mercaptan	<11	<9.3	NA	NA
Tetrahydrothiophene	<11	<9.3	NA	NA
Thiophene	<11	<9.3	NA	NA
OSHA 1007 (UMEx 100 sampler)				
Acetaldehyde	<3.3	<3.3	NA	NA
Benzaldehyde	<2.3	<2.3	NA	NA
Butyraldehyde	<2.9	<2.9	NA	NA
Crotonaldehyde	<5.0	<5.0	2,000	NA
Formaldehyde	<4.0	4.0	16	8
Hexanaldehyde	<3.5	<3.5	NA	NA
Propionaldehyde	9.1	11.0	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) ATSDR MRLs are derived for three time periods: acute (1-14 days), intermediate (14-364 days) and chronic (>365 days); the chronic ATSDR MRLs are provided within this Table

J = The result is an estimated concentration that is less than the method reporting limit but greater than the method detection limit

B = Analyte detected in both the sample and associated method blank

NA = Limit not established for inhalation route (gaseous air samples)

Mr. Peter Lucas: July 6, 2017 ambient air sampling
July 18, 2017
Page 5

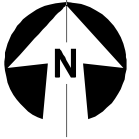
All ALS Environmental laboratory reports and chain of custody forms are attached. Please let me know if you have any questions.



Sincerely,

LJB Inc.

A handwritten signature in black ink that reads "Alexandra M. Zelles". The signature is written in a cursive style with a large initial 'A'.

Alexandra Zelles
Environmental Scientist



-  Air sample locations
-  Stony Hollow Landfill

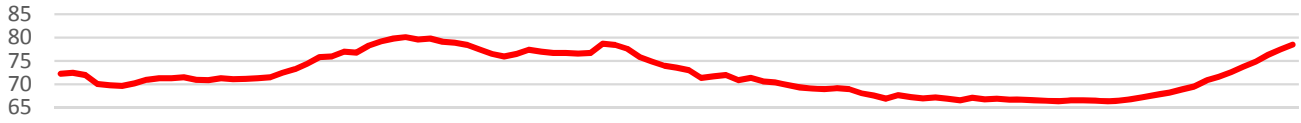


0 225 450 900 Feet

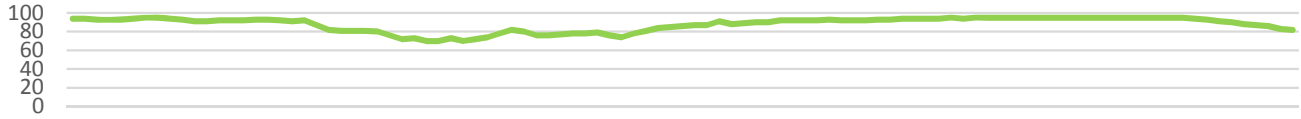
> Waste Management Stony Hollow Landfill
Ambient Air Sample Locations



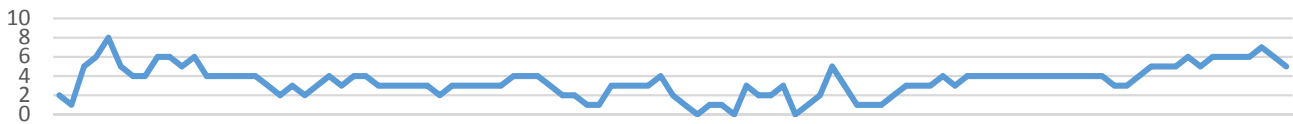
Temperature, °F



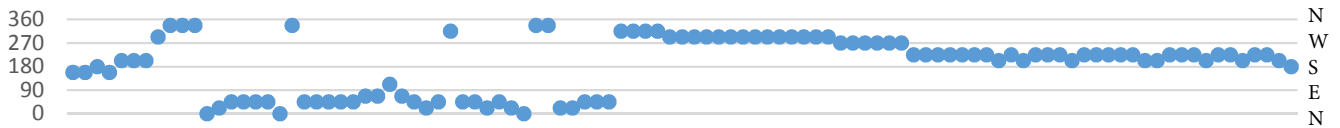
Relative Humidity, %



Wind Speed, mph



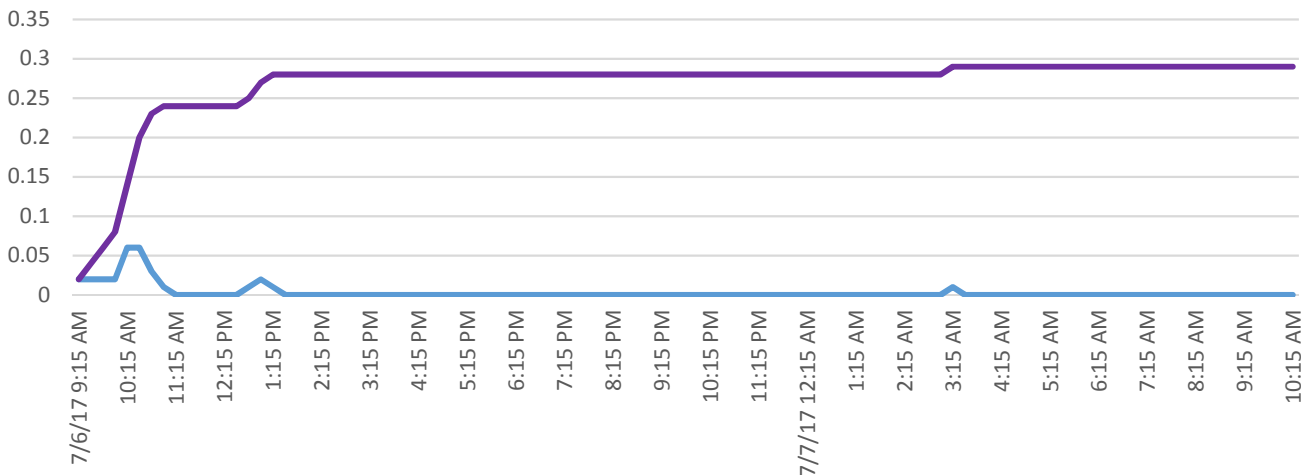
Wind Direction



Barometric Pressure, Inches Hg



Rain and Cumulative Rain, Inches





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

LABORATORY REPORT

July 13, 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 July 10, 2017. For your reference, these analyses have been assigned our service request number P1703272.

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. 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 Kate Kaneko at 11:25 am, 07/13/17

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

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

Service Request No: P1703272

CASE NARRATIVE

The samples were received intact under chain of custody on July 10, 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 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.

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.



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

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1177034
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-004
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-17-8
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 6-6
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	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, 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: P1703272

Date Received: 7/10/2017
 Time Received: 10:08

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-18	P1703272-001	Air	7/7/2017	09:38	AS00947	-6.05	4.41	X	X
SHAA-S-18	P1703272-002	Air	7/7/2017	10:04	AS00064	-4.75	3.68	X	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Waste Management-Stony Hollow Landfill
Client Sample ID: SHAA-N-18
Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272
 ALS Sample ID: P1703272-001

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00947

Date Collected: 7/7/17
 Time Collected: 09:38
 Date Received: 7/10/17
 Date Analyzed: 7/10/17
 Time Analyzed: 13:49
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -6.05 Final Pressure (psig): 4.41

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	15	ND	11	
463-58-1	Carbonyl Sulfide	ND	27	ND	11	
74-93-1	Methyl Mercaptan	ND	22	ND	11	
75-08-1	Ethyl Mercaptan	ND	28	ND	11	
75-18-3	Dimethyl Sulfide	ND	28	ND	11	
75-15-0	Carbon Disulfide	ND	17	ND	5.5	
75-33-2	Isopropyl Mercaptan	ND	34	ND	11	
75-66-1	tert-Butyl Mercaptan	ND	41	ND	11	
107-03-9	n-Propyl Mercaptan	ND	34	ND	11	
624-89-5	Ethyl Methyl Sulfide	ND	34	ND	11	
110-02-1	Thiophene	ND	38	ND	11	
513-44-0	Isobutyl Mercaptan	ND	41	ND	11	
352-93-2	Diethyl Sulfide	ND	41	ND	11	
109-79-5	n-Butyl Mercaptan	ND	41	ND	11	
624-92-0	Dimethyl Disulfide	ND	21	ND	5.5	
616-44-4	3-Methylthiophene	ND	44	ND	11	
110-01-0	Tetrahydrothiophene	ND	40	ND	11	
638-02-8	2,5-Dimethylthiophene	ND	51	ND	11	
872-55-9	2-Ethylthiophene	ND	51	ND	11	
110-81-6	Diethyl Disulfide	ND	28	ND	5.5	

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

RESULTS OF ANALYSIS

Page 1 of 1

Client: Waste Management-Stony Hollow Landfill
Client Sample ID: SHAA-S-18
Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272
 ALS Sample ID: P1703272-002

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00064

Date Collected: 7/7/17
 Time Collected: 10:04
 Date Received: 7/10/17
 Date Analyzed: 7/10/17
 Time Analyzed: 14:07
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -4.75 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	13	ND	9.3	
463-58-1	Carbonyl Sulfide	ND	23	ND	9.3	
74-93-1	Methyl Mercaptan	ND	18	ND	9.3	
75-08-1	Ethyl Mercaptan	ND	23	ND	9.3	
75-18-3	Dimethyl Sulfide	ND	23	ND	9.3	
75-15-0	Carbon Disulfide	ND	14	ND	4.6	
75-33-2	Isopropyl Mercaptan	ND	29	ND	9.3	
75-66-1	tert-Butyl Mercaptan	ND	34	ND	9.3	
107-03-9	n-Propyl Mercaptan	ND	29	ND	9.3	
624-89-5	Ethyl Methyl Sulfide	ND	29	ND	9.3	
110-02-1	Thiophene	ND	32	ND	9.3	
513-44-0	Isobutyl Mercaptan	ND	34	ND	9.3	
352-93-2	Diethyl Sulfide	ND	34	ND	9.3	
109-79-5	n-Butyl Mercaptan	ND	34	ND	9.3	
624-92-0	Dimethyl Disulfide	ND	18	ND	4.6	
616-44-4	3-Methylthiophene	ND	37	ND	9.3	
110-01-0	Tetrahydrothiophene	ND	33	ND	9.3	
638-02-8	2,5-Dimethylthiophene	ND	42	ND	9.3	
872-55-9	2-Ethylthiophene	ND	42	ND	9.3	
110-81-6	Diethyl Disulfide	ND	23	ND	4.6	

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: P1703272
 ALS Sample ID: P170710-MB

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Time Collected: NA
 Date Received: NA
 Date Analyzed: 7/10/17
 Time Analyzed: 08:26
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m ³	MRL µg/m ³	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: P1703272

ALS Sample ID: P170710-LCS

Test Code: ASTM D 5504-12

Instrument ID: Agilent 7890A/GC22/SCD

Analyst: Mike Conejo

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 7/10/17

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	1,050	105	81-141	
463-58-1	Carbonyl Sulfide	1,000	1,090	109	81-147	
74-93-1	Methyl Mercaptan	1,000	1,080	108	80-144	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-001

Test Code: EPA TO-15

Date Collected: 7/7/17

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

Date Received: 7/10/17

Analyst: Wida Ang

Date Analyzed: 7/10/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00947

Initial Pressure (psig): -6.05 Final Pressure (psig): 4.41

Canister Dilution Factor: 2.21

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	1.1	0.31	ND	0.64	0.18	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	1.1	0.38	0.44	0.22	0.076	
74-87-3	Chloromethane	0.34	1.1	0.33	0.16	0.54	0.16	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.42	ND	0.16	0.060	
75-01-4	Vinyl Chloride	ND	1.1	0.38	ND	0.43	0.15	
106-99-0	1,3-Butadiene	ND	1.1	0.49	ND	0.50	0.22	
74-83-9	Bromomethane	ND	1.1	0.42	ND	0.28	0.11	
75-00-3	Chloroethane	ND	1.1	0.38	ND	0.42	0.14	
67-64-1	Acetone	8.6	11	1.7	3.6	4.7	0.72	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.4	1.1	0.38	0.25	0.20	0.067	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	11	0.93	0.46	4.5	0.38	J
75-35-4	1,1-Dichloroethene	ND	1.1	0.38	ND	0.28	0.095	
75-09-2	Methylene Chloride	0.63	1.1	0.38	0.18	0.32	0.11	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.43	1.1	0.38	0.057	0.14	0.049	J
75-15-0	Carbon Disulfide	ND	11	0.33	ND	3.5	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.42	ND	0.28	0.11	
75-34-3	1,1-Dichloroethane	ND	1.1	0.35	ND	0.27	0.087	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.38	ND	0.31	0.10	
108-05-4	Vinyl Acetate	ND	11	1.4	ND	3.1	0.41	
78-93-3	2-Butanone (MEK)	1.4	11	0.46	0.47	3.7	0.16	J
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.35	ND	0.28	0.089	

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-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-001

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: AS00947

Date Collected: 7/7/17

Date Received: 7/10/17

Date Analyzed: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.05 Final Pressure (psig): 4.41

Canister Dilution Factor: 2.21

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	ppbV	Qualifier
141-78-6	Ethyl Acetate	0.80	2.2	0.77	0.22	0.61	0.21	J
110-54-3	n-Hexane	0.53	1.1	0.33	0.15	0.31	0.094	J
67-66-3	Chloroform	ND	1.1	0.38	ND	0.23	0.077	
109-99-9	Tetrahydrofuran (THF)	0.59	1.1	0.44	0.20	0.37	0.15	J
107-06-2	1,2-Dichloroethane	ND	1.1	0.35	ND	0.27	0.087	
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.38	ND	0.20	0.069	
71-43-2	Benzene	0.84	1.1	0.35	0.26	0.35	0.11	J
56-23-5	Carbon Tetrachloride	0.41	1.1	0.33	0.065	0.18	0.053	J
110-82-7	Cyclohexane	ND	2.2	0.64	ND	0.64	0.19	
78-87-5	1,2-Dichloropropane	ND	1.1	0.35	ND	0.24	0.077	
75-27-4	Bromodichloromethane	ND	1.1	0.33	ND	0.17	0.050	
79-01-6	Trichloroethene	ND	1.1	0.31	ND	0.21	0.058	
123-91-1	1,4-Dioxane	ND	1.1	0.35	ND	0.31	0.098	
142-82-5	n-Heptane	ND	1.1	0.38	ND	0.27	0.092	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.31	ND	0.24	0.068	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.35	ND	0.27	0.086	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.35	ND	0.24	0.078	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.35	ND	0.20	0.065	
108-88-3	Toluene	1.9	1.1	0.38	0.50	0.29	0.10	
591-78-6	2-Hexanone	ND	1.1	0.35	ND	0.27	0.086	

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-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-001

Test Code: EPA TO-15

Date Collected: 7/7/17

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

Date Received: 7/10/17

Analyst: Wida Ang

Date Analyzed: 7/10/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00947

Initial Pressure (psig): -6.05 Final Pressure (psig): 4.41

Canister Dilution Factor: 2.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	1.1	0.35	ND	0.13	0.042	
106-93-4	1,2-Dibromoethane	ND	1.1	0.35	ND	0.14	0.046	
127-18-4	Tetrachloroethene	ND	1.1	0.31	ND	0.16	0.046	
108-90-7	Chlorobenzene	ND	1.1	0.35	ND	0.24	0.077	
100-41-4	Ethylbenzene	0.40	1.1	0.35	0.092	0.25	0.081	J
179601-23-1	m,p-Xylenes	0.93	2.2	0.66	0.21	0.51	0.15	J
75-25-2	Bromoform	ND	1.1	0.33	ND	0.11	0.032	
100-42-5	Styrene	ND	1.1	0.33	ND	0.26	0.078	
95-47-6	o-Xylene	ND	1.1	0.33	ND	0.25	0.076	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.33	ND	0.16	0.048	
98-82-8	Cumene	ND	1.1	0.33	ND	0.22	0.067	
622-96-8	4-Ethyltoluene	ND	1.1	0.35	ND	0.22	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	0.35	ND	0.22	0.072	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	0.33	ND	0.22	0.067	
100-44-7	Benzyl Chloride	ND	1.1	0.24	ND	0.21	0.047	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.33	ND	0.18	0.055	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.31	ND	0.18	0.051	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.33	ND	0.18	0.055	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.35	ND	0.15	0.048	
91-20-3	Naphthalene	3.8	1.1	0.40	0.72	0.21	0.076	B
87-68-3	Hexachlorobutadiene	ND	1.1	0.31	ND	0.10	0.029	

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.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-S-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-002

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: AS00064

Date Collected: 7/7/17

Date Received: 7/10/17

Date Analyzed: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.75 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.93	0.26	ND	0.54	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.93	0.31	0.45	0.19	0.064	
74-87-3	Chloromethane	0.31	0.93	0.28	0.15	0.45	0.13	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.93	0.35	ND	0.13	0.050	
75-01-4	Vinyl Chloride	ND	0.93	0.31	ND	0.36	0.12	
106-99-0	1,3-Butadiene	ND	0.93	0.41	ND	0.42	0.18	
74-83-9	Bromomethane	ND	0.93	0.35	ND	0.24	0.091	
75-00-3	Chloroethane	ND	0.93	0.31	ND	0.35	0.12	
67-64-1	Acetone	8.1	9.3	1.4	3.4	3.9	0.60	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.4	0.93	0.31	0.25	0.16	0.056	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	9.3	0.78	0.42	3.8	0.32	J
75-35-4	1,1-Dichloroethene	ND	0.93	0.31	ND	0.23	0.079	
75-09-2	Methylene Chloride	0.61	0.93	0.31	0.18	0.27	0.091	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.49	0.93	0.31	0.064	0.12	0.041	J
75-15-0	Carbon Disulfide	ND	9.3	0.28	ND	3.0	0.089	
156-60-5	trans-1,2-Dichloroethene	ND	0.93	0.35	ND	0.23	0.089	
75-34-3	1,1-Dichloroethane	ND	0.93	0.30	ND	0.23	0.073	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	0.31	ND	0.26	0.087	
108-05-4	Vinyl Acetate	ND	9.3	1.2	ND	2.6	0.34	
78-93-3	2-Butanone (MEK)	1.2	9.3	0.39	0.40	3.1	0.13	J
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.30	ND	0.23	0.075	

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-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-002

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: AS00064

Date Collected: 7/7/17

Date Received: 7/10/17

Date Analyzed: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.75 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.9	0.65	ND	0.51	0.18	
110-54-3	n-Hexane	0.47	0.93	0.28	0.13	0.26	0.079	J
67-66-3	Chloroform	ND	0.93	0.31	ND	0.19	0.064	
109-99-9	Tetrahydrofuran (THF)	0.70	0.93	0.37	0.24	0.31	0.13	J
107-06-2	1,2-Dichloroethane	ND	0.93	0.30	ND	0.23	0.073	
71-55-6	1,1,1-Trichloroethane	ND	0.93	0.31	ND	0.17	0.058	
71-43-2	Benzene	0.72	0.93	0.30	0.23	0.29	0.093	J
56-23-5	Carbon Tetrachloride	0.41	0.93	0.28	0.064	0.15	0.044	J
110-82-7	Cyclohexane	ND	1.9	0.54	ND	0.54	0.16	
78-87-5	1,2-Dichloropropane	ND	0.93	0.30	ND	0.20	0.064	
75-27-4	Bromodichloromethane	ND	0.93	0.28	ND	0.14	0.041	
79-01-6	Trichloroethene	ND	0.93	0.26	ND	0.17	0.048	
123-91-1	1,4-Dioxane	ND	0.93	0.30	ND	0.26	0.082	
142-82-5	n-Heptane	0.39	0.93	0.31	0.095	0.23	0.077	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	ND	0.93	0.30	ND	0.23	0.072	
10061-02-6	trans-1,3-Dichloropropene	ND	0.93	0.30	ND	0.20	0.065	
79-00-5	1,1,2-Trichloroethane	ND	0.93	0.30	ND	0.17	0.054	
108-88-3	Toluene	3.0	0.93	0.31	0.81	0.25	0.083	
591-78-6	2-Hexanone	ND	0.93	0.30	ND	0.23	0.072	

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-18

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P1703272-002

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: AS00064

Date Collected: 7/7/17

Date Received: 7/10/17

Date Analyzed: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.75 Final Pressure (psig): 3.68

Canister Dilution Factor: 1.85

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.93	0.30	ND	0.11	0.035	
106-93-4	1,2-Dibromoethane	ND	0.93	0.30	ND	0.12	0.039	
127-18-4	Tetrachloroethene	ND	0.93	0.26	ND	0.14	0.038	
108-90-7	Chlorobenzene	ND	0.93	0.30	ND	0.20	0.064	
100-41-4	Ethylbenzene	0.41	0.93	0.30	0.094	0.21	0.068	J
179601-23-1	m,p-Xylenes	0.95	1.9	0.56	0.22	0.43	0.13	J
75-25-2	Bromoform	ND	0.93	0.28	ND	0.089	0.027	
100-42-5	Styrene	ND	0.93	0.28	ND	0.22	0.065	
95-47-6	o-Xylene	0.33	0.93	0.28	0.075	0.21	0.064	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.93	0.28	ND	0.13	0.040	
98-82-8	Cumene	ND	0.93	0.28	ND	0.19	0.056	
622-96-8	4-Ethyltoluene	ND	0.93	0.30	ND	0.19	0.060	
108-67-8	1,3,5-Trimethylbenzene	ND	0.93	0.30	ND	0.19	0.060	
95-63-6	1,2,4-Trimethylbenzene	ND	0.93	0.28	ND	0.19	0.056	
100-44-7	Benzyl Chloride	ND	0.93	0.20	ND	0.18	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.28	ND	0.15	0.046	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.26	ND	0.15	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.28	ND	0.15	0.046	
120-82-1	1,2,4-Trichlorobenzene	ND	0.93	0.30	ND	0.12	0.040	
91-20-3	Naphthalene	0.81	0.93	0.33	0.15	0.18	0.064	J, B
87-68-3	Hexachlorobutadiene	ND	0.93	0.26	ND	0.087	0.024	

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.

B = Analyte detected in both the sample and associated method blank.

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: P1703272

ALS Sample ID: P170710-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: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	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

Page 2 of 3

Client: Waste Management-Stony Hollow Landfill

Client Sample ID: Method Blank

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1703272

ALS Sample ID: P170710-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: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	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	

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: P1703272

ALS Sample ID: P170710-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: 7/10/17

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
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	0.23	0.50	0.18	0.044	0.095	0.034	J
87-68-3	Hexachlorobutadiene	0.17	0.50	0.14	0.016	0.047	0.013	J

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

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

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

ALS Project ID: P1703272

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: 7/7/17
 Date(s) Received: 7/10/17
 Date(s) Analyzed: 7/10/17

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	P170710-MB	105	98	108	70-130	
Lab Control Sample	P170710-LCS	102	99	111	70-130	
SHAA-N-18	P1703272-001	101	100	109	70-130	
SHAA-S-18	P1703272-002	101	99	108	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: P1703272

ALS Sample ID: P170710-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: 7/10/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	170	81	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	181	86	68-109	
74-87-3	Chloromethane	210	198	94	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	200	95	66-114	
75-01-4	Vinyl Chloride	210	210	100	61-125	
106-99-0	1,3-Butadiene	210	218	104	62-144	
74-83-9	Bromomethane	210	237	113	73-123	
75-00-3	Chloroethane	210	194	92	69-122	
67-64-1	Acetone	1,060	881	83	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	188	90	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	364	86	66-121	
75-35-4	1,1-Dichloroethene	213	181	85	76-118	
75-09-2	Methylene Chloride	212	185	87	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	189	89	73-114	
75-15-0	Carbon Disulfide	213	182	85	57-102	
156-60-5	trans-1,2-Dichloroethene	213	201	94	74-123	
75-34-3	1,1-Dichloroethane	212	180	85	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	215	101	69-113	
108-05-4	Vinyl Acetate	1,060	957	90	76-128	
78-93-3	2-Butanone (MEK)	212	200	94	63-127	
156-59-2	cis-1,2-Dichloroethene	212	194	92	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.

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: P1703272

ALS Sample ID: P170710-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: 7/10/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	399	94	68-127	
110-54-3	n-Hexane	213	185	87	55-116	
67-66-3	Chloroform	212	189	89	70-109	
109-99-9	Tetrahydrofuran (THF)	213	195	92	72-113	
107-06-2	1,2-Dichloroethane	212	197	93	69-113	
71-55-6	1,1,1-Trichloroethane	212	194	92	72-115	
71-43-2	Benzene	212	174	82	65-107	
56-23-5	Carbon Tetrachloride	213	203	95	71-113	
110-82-7	Cyclohexane	425	350	82	71-115	
78-87-5	1,2-Dichloropropane	212	184	87	71-115	
75-27-4	Bromodichloromethane	214	207	97	75-118	
79-01-6	Trichloroethene	212	194	92	68-114	
123-91-1	1,4-Dioxane	213	202	95	81-131	
142-82-5	n-Heptane	213	185	87	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	204	97	77-126	
108-10-1	4-Methyl-2-pentanone	213	194	91	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	211	99	79-125	
79-00-5	1,1,2-Trichloroethane	212	198	93	75-119	
108-88-3	Toluene	212	174	82	59-118	
591-78-6	2-Hexanone	213	190	89	69-129	

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: P1703272

ALS Sample ID: P170710-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: 7/10/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
124-48-1	Dibromochloromethane	213	223	105	74-136	
106-93-4	1,2-Dibromoethane	212	215	101	73-131	
127-18-4	Tetrachloroethene	213	191	90	65-130	
108-90-7	Chlorobenzene	212	179	84	68-120	
100-41-4	Ethylbenzene	212	183	86	68-122	
179601-23-1	m,p-Xylenes	424	362	85	68-123	
75-25-2	Bromoform	212	239	113	69-130	
100-42-5	Styrene	212	208	98	71-133	
95-47-6	o-Xylene	212	185	87	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	190	90	69-130	
98-82-8	Cumene	212	181	85	70-123	
622-96-8	4-Ethyltoluene	212	187	88	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	177	83	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	188	89	67-129	
100-44-7	Benzyl Chloride	212	220	104	79-138	
541-73-1	1,3-Dichlorobenzene	212	198	93	65-136	
106-46-7	1,4-Dichlorobenzene	213	192	90	66-141	
95-50-1	1,2-Dichlorobenzene	212	194	92	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	224	106	64-134	
91-20-3	Naphthalene	214	220	103	62-136	
87-68-3	Hexachlorobutadiene	213	195	92	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.



17-Jul-2017

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

Tel: (937) 356-6204
Fax:

Re: Stony Hollow Landfill

Work Order: **1707154**

Dear Alex,

ALS Environmental received 2 samples on 07-Jul-2017 04:16 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, 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

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1707154

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>
1707154-01	SHAA-N-18	Air		7/7/2017	7/7/2017	<input type="checkbox"/>
1707154-02	SHAA-S-18	Air		7/7/2017	7/7/2017	<input type="checkbox"/>

Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1707154

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."

Client: Waste Management
Project: Stony Hollow Landfill

Work Order: 1707154

Analytical Results

Lab ID: 1707154-01A
Client Sample ID: SHAA-N-18

Collection Date: 7/7/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: MHW
Date Analyzed: 7/13/2017		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0033	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
Formaldehyde	ND	0.20	<0.0040	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	0.44	0.20	0.0091	

Lab ID: 1707154-02A
Client Sample ID: SHAA-S-18

Collection Date: 7/7/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: MHW
Date Analyzed: 7/13/2017		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0033	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
Formaldehyde	0.20	0.20	0.0040	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	0.53	0.20	0.011	

Note:

Client: Waste Management
Work Order: 1707154
Project: Stony Hollow Landfill

QC BATCH REPORT

Batch ID: **44365** Instrument ID: **HPLC2** Method: **O1007**

MBLK		Sample ID: MBLK-44365-44365			Units: µg/sample		Analysis Date: 7/13/2017			
Client ID:		Run ID: HPLC2_170713A			SeqNo: 1546050		Prep Date: 7/13/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Benzaldehyde	ND	0.20								
Butyraldehyde	ND	0.20								
Crotonaldehyde	ND	0.20								
Formaldehyde	ND	0.20								
Hexanaldehyde	ND	0.20								
Propionaldehyde	ND	0.20								

LCS		Sample ID: LCS-44365-44365			Units: µg/sample		Analysis Date: 7/13/2017			
Client ID:		Run ID: HPLC2_170713A			SeqNo: 1546051		Prep Date: 7/13/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7532	0.20	0.75	0	100	70-130	0			
Benzaldehyde	0.7681	0.20	0.75	0	102	70-130	0			
Butyraldehyde	0.7003	0.20	0.75	0	93.4	70-130	0			
Crotonaldehyde	0.7793	0.20	0.75	0	104	70-130	0			
Formaldehyde	0.7814	0.20	0.75	0	104	70-130	0			
Hexanaldehyde	0.7441	0.20	0.75	0	99.2	70-130	0			
Propionaldehyde	0.7933	0.20	0.75	0	106	70-130	0			

LCSD		Sample ID: LCSD-44365-44365			Units: µg/sample		Analysis Date: 7/13/2017			
Client ID:		Run ID: HPLC2_170713A			SeqNo: 1546060		Prep Date: 7/13/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7457	0.20	0.75	0	99.4	70-130	0.7532	1	20	
Benzaldehyde	0.7579	0.20	0.75	0	101	70-130	0.7681	1.34	20	
Butyraldehyde	0.7381	0.20	0.75	0	98.4	70-130	0.7003	5.26	20	
Crotonaldehyde	0.7733	0.20	0.75	0	103	70-130	0.7793	0.773	20	
Formaldehyde	0.7701	0.20	0.75	0	103	70-130	0.7814	1.46	20	
Hexanaldehyde	0.8883	0.20	0.75	0	118	70-130	0.7441	17.7	20	
Propionaldehyde	0.7727	0.20	0.75	0	103	70-130	0.7933	2.63	20	

The following samples were analyzed in this batch: 1707154-01A 1707154-02A

Client: Waste Management
Project: Stony Hollow Landfill
WorkOrder: 1707154

**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-Jul-17 16:16

Work Order: 1707154

Received by: JNW

Checklist completed by: Jan Wilcox 07-Jul-17
eSignature Date

Reviewed by: Rob Nieman 13-Jul-17
eSignature Date

Matrices:

Carrier name: ALSHN

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): [] []

Cooler(s)/Kit(s): []

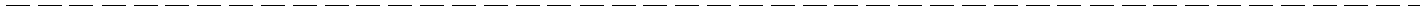
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted []

Water - pH acceptable upon receipt? Yes [] No [] N/A []

pH adjusted? Yes [] No [] N/A []

pH adjusted by: []

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments: []

CorrectiveAction: []

1707154



**ANALYTICAL SERVICES REQUEST
AND CHAIN OF CUSTODY**

Send to LJB: Invoice Results Invoice Results

Send to: Invoice Results

Contact: Alex Zelles
Address/Email: azelles@ljbinc.com; smueller@ljbinc.com

Contact: Peter Lucas
Address/Email: plucas2@wm.com

2500 Newmark Drive
Miamisburg, OH 45342

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

LJB job #: P.O. #: Per Peter Lucas/WM

Sample site: Stony Hollow Landfill

Sampled by: Alex Zelles

Signature: *Alex Zelles*

Rush Phone results
 Standard turnaround Fax results
 Need by: 3-day turnaround Email results

Special instructions:

Sample ID	Date	Time	Matrix	Comp	Grab	# Btls
SHAA-N-18	7/17/17	0938	Air		X	1
SHAA-S-18	7/17/17	1004	Air		X	1

OSHA-1007

Analysis Requested

Remarks:

ALS LAB USE ONLY

COOLER TEMP: °C

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

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

CUSTODY SEALS: NONE COOLER PACKAGE SAMPLES
EQUIP. RETURNED:

Relinquished by: *Alex Zelles* Date/time: 7/17/17 10:40 AM Received by: *[Signature]* Date/time: 7/17/17

Relinquished by: *[Signature]* Date/time: 7/17/17 15:30 Received by: *[Signature]* Date/time: 7/17/17

Relinquished by: *[Signature]* Date/time: Received at lab by: *[Signature]* Date/time: 7/17/17