



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 – May 31-June 1, 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 May 31 – June 1, 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 be '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

Re: May 31, 2017 ambient air sampling at Stony Hollow Landfill (REVISED)

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 May 31 through June 1, 2017 LJB Inc. collected two 24-hour ambient air samples at the Waste Management Stony Hollow Landfill. The samples included SHAA-N-06, collected from inside the northeast fence line of the landfill, and SHAA-S-06, 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.
SHAA-N-06	5/31/2017 09:36	6/1/2017 09:36	-30” Hg (+)	-7.9” Hg	AS01140	SFC00038
SHAA-S-06	5/31/2017 09:58	6/1/2017 09:36	-30” Hg (+)	-9.5” Hg	AS01221	SFC00061*

* = Controller label number was scratched and difficult to read

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 June 1, 2017 and were analyzed by OSHA Method 1007 on June 5, 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 5, 2017, and were analyzed by EPA Method TO-15 on June 8, 2017 and ASTM Standard Test Method D5504-12 on June 6, 2017. Table 2 provides the summarized sample results.

The EPA Method TO-15 found that only 1,2,4-trimethylbenzene, 2-butanone, 2-propanol, acetone, benzene, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethyl acetate, ethylbenzene, Freon 113, heptane, hexane, m,p-xylene, methylene chloride, o-xylene, tetrachloroethene, 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 formaldehyde above laboratory reporting limits; concentrations of this compound were well below the NIOSH REL and ATSDR MRL. Propionaldehyde 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.

TABLE 2

ANALYTE	SHAA-N-06 ¹ , ppbv	SHAA-S-06 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR MRL ³ , ppbv
EPA TO-15 (Summa canister)				
1,1,1-Trichloroethane	<0.13	<0.15	350,000	700
1,1,2,2-Tetrachloroethane	<0.11	<0.12	1,000	NA
1,1,2-Trichloroethane	<0.13	<0.15	10,000	NA
1,1-Dichloroethane	<0.18	<0.21	100,000	NA
1,1-Dichloroethene	<0.18	<0.21	200,000	20
1,2,4-Trichlorobenzene	<0.098	<0.11	5,000	NA
1,2,4-Trimethylbenzene	<0.15	0.099 (J)	25,000	NA
1,2-Dibromoethane	<0.095	<0.11	45	NA
1,2-Dichlorobenzene	<0.12	<0.14	50,000	NA
1,2-Dichloroethane	<0.18	<0.21	1,000	600
1,2-Dichloropropane	<0.16	<0.18	75,000	7
1,3,5-Trimethylbenzene	<0.15	<0.17	25,000	NA
1,3-Butadiene	<0.33	<0.38	1,000	NA
1,3-Dichlorobenzene	<0.12	<0.14	50,000	NA
1,4-Dichlorobenzene	<0.12	<0.14	50,000	10
1,4-Dioxane	<0.20	<0.23	NA	30
2-Butanone	0.28 (J)	0.57 (J)	200	NA
2-Hexanone	<0.18	<0.20	1,000	NA
2-Propanol	0.49 (J)	<3.4	400,000	NA
4-Ethyltoluene	<0.15	<0.17	NA	NA
4-Methyl-2-pentanone	<0.18	<0.20	50,000	NA
Acetone	3.2	3.4 (J)	250,000	13,000

ANALYTE	SHAA-N-06 ¹ , ppbv	SHAA-S-06 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR MRL ³ , ppbv
Benzene	0.17 (J)	0.84	100	3
Benzyl chloride	<0.14	<0.16	1,000	NA
Bromodichloromethane	<0.11	<0.12	NA	NA
Bromoform	<0.071	<0.080	500	NA
Bromomethane	<0.19 (L)	<0.21 (L)	20,000	5
Carbon disulfide	<2.3	<2.7	1,000	300
Carbon tetrachloride	0.065 (J)	0.064 (J)	2,000	30
Chlorobenzene	<0.16	<0.18	75,000	NA
Chloroethane	<0.28	<0.31	1,000,000	15,000
Chloroform	<0.15	<0.17	2,000	20
Chloromethane	0.22 (J)	0.18 (J)	100,000	50
cis-1,2-Dichloroethene	<0.18	<0.21	200,000	NA
cis-1,3-Dichloropropene	<0.16	<0.18	1,000	7
Cumene	<0.15	<0.17	50,000	NA
Cyclohexane	<0.42	<0.48	300,000	NA
Dibromochloromethane	<0.086	<0.080	NA	NA
Dichlorodifluoromethane	0.48	0.48	1,000,000	NA
Ethyl acetate	0.57	0.52	400,000	NA
Ethylbenzene	<0.17	0.21	100,000	60
Freon 113 (Trichlorotrifluoroethane)	0.064 (J)	0.062 (J)	1,000,000	NA
Freon 114 (1,2-Dichloro-1,1,2,2-tetrafluoroethane)	<0.10	<0.12	1,000,000	NA
Heptane (n-Heptane)	<0.18	0.089 (J)	85,000	NA
Hexachlorobutadiene	<0.068	<0.078	20	NA
Hexane (n-Hexane)	0.085 (J)	0.12 (J)	50,000	600
m,p-Xylene	0.11 (J)	0.45	100,000	50
Methylene chloride	0.26	0.28	25,000	300
MTBE (Methyl tert-butyl ether)	<0.20	<0.23	2,000	NA
Naphthalene	<0.14	<0.16	10,000	1
o-Xylene	<0.17	0.15 (J)	100,000	NA
Propene	0.50	0.73	NA	NA
Styrene	<0.17	<0.20	50,000	200
Tetrachloroethene	0.035 (J)	<0.12	100,000	NA
Tetrahydrofuran	0.17 (J)	1.3	200,000	NA
Toluene	0.28	0.68	100,000	1,000
trans-1,2-Dichloroethene	<0.18	<0.21	200,000	200
trans-1,3-Dichloropropene	<0.16	<0.18	1,000	7

ANALYTE	SHAA-N-06 ¹ , ppbv	SHAA-S-06 ¹ , ppbv	NIOSH REL ² , ppbv	ATSDR MRL ³ , ppbv
Trichloroethene	<0.14	0.053 (J)	100,000	NA
Trichlorofluoromethane	0.25	0.24	1,000,000	NA
Vinyl acetate	<2.1	<2.4	4,000	10
Vinyl chloride	<0.29	<0.32	1,000	30
ASTM D5504-12 (Summa canister)				
2,5-Dimethylthiophene	<7.3	<8.3	NA	NA
2-Ethylthiophene	<7.3	<8.3	NA	NA
3-Methylthiophene	<7.3	<8.3	NA	NA
Carbon disulfide	<3.7	<4.2	1,000	300
Carbonyl sulfide	<7.3	<8.3	NA	NA
Diethyl disulfide	<3.7	<4.2	NA	NA
Diethyl sulfide	<7.3	<8.3	NA	NA
Dimethyl disulfide	<3.7	<4.2	NA	NA
Dimethyl sulfide	<7.3	<8.3	NA	NA
Ethyl mercaptan	<7.3	<8.3	NA	NA
Ethyl methyl sulfide	<7.3	<8.3	NA	NA
Hydrogen sulfide	<7.3	<8.3	NA	2
Isobutyl mercaptan	<7.3	<8.3	NA	NA
Isopropyl mercaptan	<7.3	<8.3	NA	NA
Methyl mercaptan	<7.3	<8.3	NA	NA
n-Butyl mercaptan	<7.3	<8.3	NA	NA
n-Propyl mercaptan	<7.3	<8.3	NA	NA
tert-Butyl mercaptan	<7.3	<8.3	NA	NA
Tetrahydrothiophene	<7.3	<8.3	NA	NA
Thiophene	<7.3	<8.3	NA	NA
OSHA 1007 (UMEx 100 sampler)				
Acetaldehyde	<1.5	<1.5	NA	NA
Benzaldehyde	<1.0	<1.0	NA	NA
Butyraldehyde	<1.3	<1.3	NA	NA
Crotonaldehyde	<2.2	<2.2	2,000	NA
Formaldehyde ⁽⁴⁾	22 2.1	23 2.3	16	8
Hexanaldehyde	<1.6	<1.6	NA	NA
Propionaldehyde	3.6	5.4	NA	NA

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

(2) NIOSH REL is based on the time-weighted average concentration for a 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: May 31, 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
L = Laboratory control sample recovery outside the specified limits; results may be biased high
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

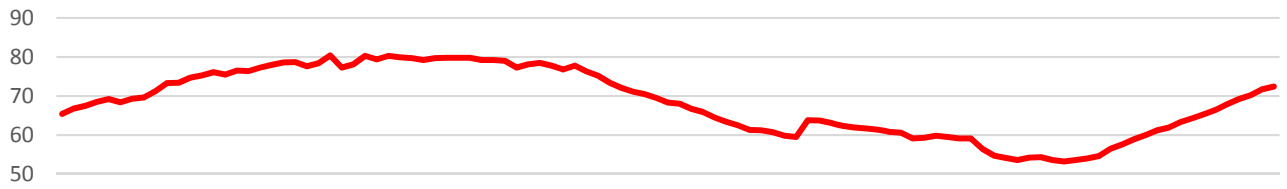


0 225 450 900
Feet

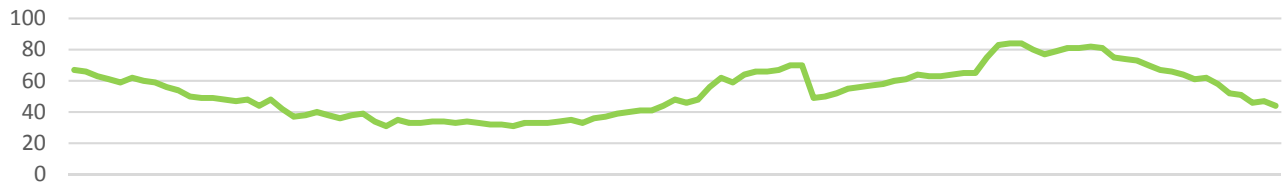
> Waste Management Stony Hollow Landfill Ambient Air Sample Locations



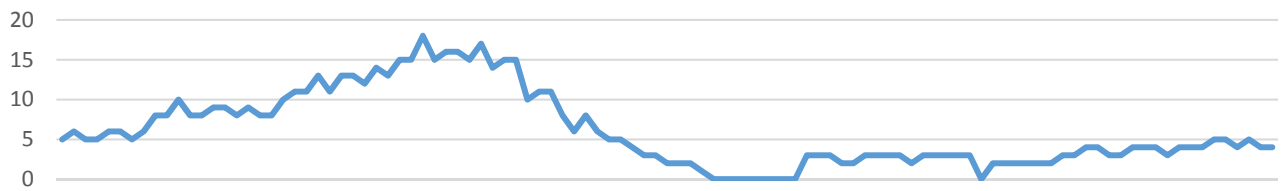
Temperature, °F



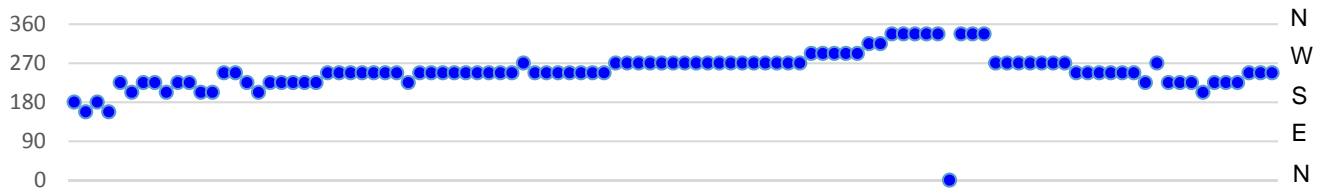
Relative Humidity, %



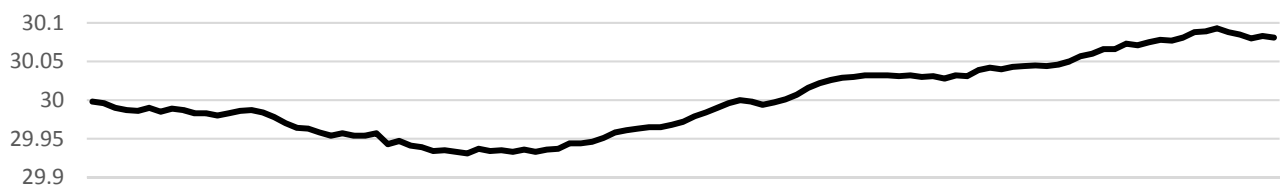
Wind Speed, mph



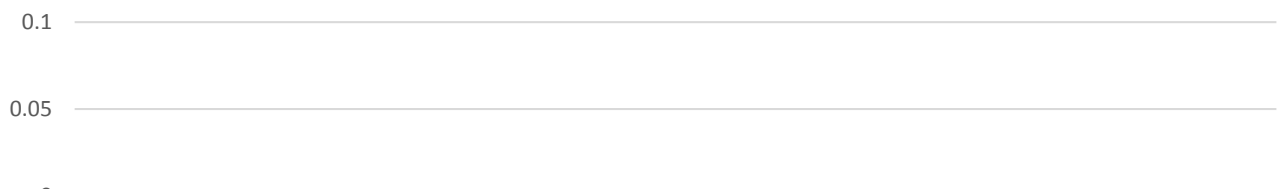
Wind Direction



Barometric Pressure, Inches Hg



Rain and Cumulative Rain, Inches





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LABORATORY REPORT

June 8, 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 5, 2017. For your reference, these analyses have been assigned our service request number P1702690.

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 3:43 pm, 06/08/17

Kate Kaneko
Project Manager



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

Service Request No: P1702690

CASE NARRATIVE

The samples were received intact under chain of custody on June 5, 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) exceeded the Laboratory generated upper control criteria. However, since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain the analyte in question, the data quality is not significantly affected. The associated data has been flagged accordingly. No further 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.

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



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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	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	T104704413-16-7
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: P1702690

Date Received: 6/5/2017
 Time Received: 09:45

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-06	P1702690-001	Air	6/1/2017	09:36	AS01140	-2.29	3.47	X	X
SHAA-S-06	P1702690-002	Air	6/1/2017	09:58	AS01221	-3.64	3.67	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%) **3 Day (50%)** 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. **PA 702690**

Company Name & Address (Reporting Information) LJB Inc. c/o Waste Management-Stony Hollow 2500 Newmark Drive Miamisburg, OH 45342				Project Name Stony Hollow Landfill					ALS Contact:		Comments e.g. Actual Preservative or specific instructions
									Analysis Method		
Project Manager Alex Zelles				Project Number					TO-15	ASTM D 5504-12	
Phone 937-259-5022		Fax		P.O. # / Billing Information Per Peter Lucas/WMM							
Email Address for Result Reporting azelles@ljbinc.com				Sampler (Print & Sign)							
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			
SHAA-N-06	①	5/31/17- 6/1/17	0936- 0936	AS01140	SFC00038	-30" Hg(+)	-7.9" Hg		X	X	
SHAA-S-06	②	5/31/17- 6/1/17	0958- 0958	AS01221	SFC00061	-30" Hg(+)	-9.5" Hg		X	X	
					L (?) label scratched						

Report Tier Levels - please select

Tier I - Results (Default if not specified) Tier III (Results + QC & Calibration Summaries) EDD required Yes / No _____ Chain of Custody Seal: (Circle) **INTACT** (Circle) **ABSENT** Project Requirements (MRLs, QAPP) _____

Tier II (Results + QC Summaries) **X** Tier IV (Data Validation Package) 10% Surcharge Type: _____ Units: _____ INTACT BROKEN ABSENT

Relinquished by: (Signature) <i>Alex Zelles</i>	Date: 6/1/17	Time: 10:36 am	Received by: (Signature) <i>Via FedEx (7792 5347 7221)</i>	Date: 6/5/17	Time: 0945	Cooler / Blank Temperature _____ °C
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	

**ALS Environmental
Sample Acceptance Check Form**

Client: Waste Management-Stony Hollow Landfill Work order: P1702690
 Project: Stony Hollow Landfill
 Sample(s) received on: 6/5/17 Date opened: 6/5/17 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 sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume 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 temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , 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 pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials 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 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: 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
P1702690-001.01	6.0 L Silonite Can					
P1702690-002.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001

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: AS01140

Date Collected: 6/1/17
 Time Collected: 09:36
 Date Received: 6/5/17
 Date Analyzed: 6/6/17
 Time Analyzed: 09:31
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	10	ND	7.3	
463-58-1	Carbonyl Sulfide	ND	18	ND	7.3	
74-93-1	Methyl Mercaptan	ND	14	ND	7.3	
75-08-1	Ethyl Mercaptan	ND	19	ND	7.3	
75-18-3	Dimethyl Sulfide	ND	19	ND	7.3	
75-15-0	Carbon Disulfide	ND	11	ND	3.7	
75-33-2	Isopropyl Mercaptan	ND	23	ND	7.3	
75-66-1	tert-Butyl Mercaptan	ND	27	ND	7.3	
107-03-9	n-Propyl Mercaptan	ND	23	ND	7.3	
624-89-5	Ethyl Methyl Sulfide	ND	23	ND	7.3	
110-02-1	Thiophene	ND	25	ND	7.3	
513-44-0	Isobutyl Mercaptan	ND	27	ND	7.3	
352-93-2	Diethyl Sulfide	ND	27	ND	7.3	
109-79-5	n-Butyl Mercaptan	ND	27	ND	7.3	
624-92-0	Dimethyl Disulfide	ND	14	ND	3.7	
616-44-4	3-Methylthiophene	ND	29	ND	7.3	
110-01-0	Tetrahydrothiophene	ND	26	ND	7.3	
638-02-8	2,5-Dimethylthiophene	ND	33	ND	7.3	
872-55-9	2-Ethylthiophene	ND	33	ND	7.3	
110-81-6	Diethyl Disulfide	ND	18	ND	3.7	

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

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-S-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-002

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: AS01221

Date Collected: 6/1/17
 Time Collected: 09:58
 Date Received: 6/5/17
 Date Analyzed: 6/6/17
 Time Analyzed: 09:48
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	12	ND	8.3	
463-58-1	Carbonyl Sulfide	ND	20	ND	8.3	
74-93-1	Methyl Mercaptan	ND	16	ND	8.3	
75-08-1	Ethyl Mercaptan	ND	21	ND	8.3	
75-18-3	Dimethyl Sulfide	ND	21	ND	8.3	
75-15-0	Carbon Disulfide	ND	13	ND	4.2	
75-33-2	Isopropyl Mercaptan	ND	26	ND	8.3	
75-66-1	tert-Butyl Mercaptan	ND	31	ND	8.3	
107-03-9	n-Propyl Mercaptan	ND	26	ND	8.3	
624-89-5	Ethyl Methyl Sulfide	ND	26	ND	8.3	
110-02-1	Thiophene	ND	29	ND	8.3	
513-44-0	Isobutyl Mercaptan	ND	31	ND	8.3	
352-93-2	Diethyl Sulfide	ND	31	ND	8.3	
109-79-5	n-Butyl Mercaptan	ND	31	ND	8.3	
624-92-0	Dimethyl Disulfide	ND	16	ND	4.2	
616-44-4	3-Methylthiophene	ND	33	ND	8.3	
110-01-0	Tetrahydrothiophene	ND	30	ND	8.3	
638-02-8	2,5-Dimethylthiophene	ND	38	ND	8.3	
872-55-9	2-Ethylthiophene	ND	38	ND	8.3	
110-81-6	Diethyl Disulfide	ND	21	ND	4.2	

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

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

ALS Project ID: P1702690
 ALS Sample ID: P170606-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: 6/06/17
 Time Analyzed: 08:15
 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

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Client: Waste Management-Stony Hollow Landfill
Client Sample ID: Lab Control Sample
Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690
 ALS Sample ID: P170606-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: 6/06/17
 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	1,010	101	75-148	
463-58-1	Carbonyl Sulfide	1,000	1,090	109	70-137	
74-93-1	Methyl Mercaptan	1,000	1,080	108	72-139	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01140

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

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	0.86	0.73	0.20	0.50	0.42	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.73	0.25	0.48	0.15	0.050	
74-87-3	Chloromethane	0.46	0.73	0.22	0.22	0.35	0.11	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	0.28	ND	0.10	0.040	
75-01-4	Vinyl Chloride	ND	0.73	0.25	ND	0.29	0.097	
106-99-0	1,3-Butadiene	ND	0.73	0.32	ND	0.33	0.15	
74-83-9	Bromomethane	ND	0.73	0.28	ND	0.19	0.071	L
75-00-3	Chloroethane	ND	0.73	0.25	ND	0.28	0.094	
67-64-1	Acetone	7.6	7.3	1.1	3.2	3.1	0.47	
75-69-4	Trichlorofluoromethane (CFC 11)	1.4	0.73	0.25	0.25	0.13	0.044	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	7.3	0.61	0.49	3.0	0.25	J
75-35-4	1,1-Dichloroethene	ND	0.73	0.25	ND	0.18	0.063	
75-09-2	Methylene Chloride	0.90	0.73	0.25	0.26	0.21	0.071	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.49	0.73	0.25	0.064	0.095	0.032	J
75-15-0	Carbon Disulfide	ND	7.3	0.22	ND	2.3	0.070	
156-60-5	trans-1,2-Dichloroethene	ND	0.73	0.28	ND	0.18	0.070	
75-34-3	1,1-Dichloroethane	ND	0.73	0.23	ND	0.18	0.058	
1634-04-4	Methyl tert-Butyl Ether	ND	0.73	0.25	ND	0.20	0.069	
108-05-4	Vinyl Acetate	ND	7.3	0.95	ND	2.1	0.27	
78-93-3	2-Butanone (MEK)	0.84	7.3	0.31	0.28	2.5	0.10	J
156-59-2	cis-1,2-Dichloroethene	ND	0.73	0.23	ND	0.18	0.059	

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.

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001

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: AS01140

Date Collected: 6/1/17

Date Received: 6/5/17

Date Analyzed: 6/8/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

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	2.1	1.5	0.51	0.57	0.41	0.14	
110-54-3	n-Hexane	0.30	0.73	0.22	0.085	0.21	0.062	J
67-66-3	Chloroform	ND	0.73	0.25	ND	0.15	0.051	
109-99-9	Tetrahydrofuran (THF)	0.50	0.73	0.29	0.17	0.25	0.099	J
107-06-2	1,2-Dichloroethane	ND	0.73	0.23	ND	0.18	0.058	
71-55-6	1,1,1-Trichloroethane	ND	0.73	0.25	ND	0.13	0.046	
71-43-2	Benzene	0.53	0.73	0.23	0.17	0.23	0.073	J
56-23-5	Carbon Tetrachloride	0.41	0.73	0.22	0.065	0.12	0.035	J
110-82-7	Cyclohexane	ND	1.5	0.42	ND	0.42	0.12	
78-87-5	1,2-Dichloropropane	ND	0.73	0.23	ND	0.16	0.051	
75-27-4	Bromodichloromethane	ND	0.73	0.22	ND	0.11	0.033	
79-01-6	Trichloroethene	ND	0.73	0.20	ND	0.14	0.038	
123-91-1	1,4-Dioxane	ND	0.73	0.23	ND	0.20	0.065	
142-82-5	n-Heptane	ND	0.73	0.25	ND	0.18	0.061	
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.20	ND	0.16	0.045	
108-10-1	4-Methyl-2-pentanone	ND	0.73	0.23	ND	0.18	0.057	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.23	ND	0.16	0.051	
79-00-5	1,1,2-Trichloroethane	ND	0.73	0.23	ND	0.13	0.043	
108-88-3	Toluene	1.1	0.73	0.25	0.28	0.19	0.066	
591-78-6	2-Hexanone	ND	0.73	0.23	ND	0.18	0.057	

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

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01140

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

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	0.73	0.23	ND	0.086	0.027	
106-93-4	1,2-Dibromoethane	ND	0.73	0.23	ND	0.095	0.030	
127-18-4	Tetrachloroethene	0.24	0.73	0.20	0.035	0.11	0.030	J
108-90-7	Chlorobenzene	ND	0.73	0.23	ND	0.16	0.051	
100-41-4	Ethylbenzene	ND	0.73	0.23	ND	0.17	0.054	
179601-23-1	m,p-Xylenes	0.48	1.5	0.44	0.11	0.34	0.10	J
75-25-2	Bromoform	ND	0.73	0.22	ND	0.071	0.021	
100-42-5	Styrene	ND	0.73	0.22	ND	0.17	0.051	
95-47-6	o-Xylene	ND	0.73	0.22	ND	0.17	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.73	0.22	ND	0.11	0.032	
98-82-8	Cumene	ND	0.73	0.22	ND	0.15	0.045	
622-96-8	4-Ethyltoluene	ND	0.73	0.23	ND	0.15	0.048	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	0.23	ND	0.15	0.048	
95-63-6	1,2,4-Trimethylbenzene	ND	0.73	0.22	ND	0.15	0.045	
100-44-7	Benzyl Chloride	ND	0.73	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.22	ND	0.12	0.036	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.20	ND	0.12	0.034	
95-50-1	1,2-Dichlorobenzene	ND	0.73	0.22	ND	0.12	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	0.23	ND	0.098	0.031	
91-20-3	Naphthalene	ND	0.73	0.26	ND	0.14	0.050	
87-68-3	Hexachlorobutadiene	ND	0.73	0.20	ND	0.068	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.

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

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RESULTS OF ANALYSIS

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-S-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-002

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01221

Initial Pressure (psig): -3.64 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.66

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	1.2	0.83	0.23	0.73	0.48	0.14	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.83	0.28	0.48	0.17	0.057	
74-87-3	Chloromethane	0.37	0.83	0.25	0.18	0.40	0.12	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	0.32	ND	0.12	0.045	
75-01-4	Vinyl Chloride	ND	0.83	0.28	ND	0.32	0.11	
106-99-0	1,3-Butadiene	ND	0.83	0.37	ND	0.38	0.17	
74-83-9	Bromomethane	ND	0.83	0.32	ND	0.21	0.081	L
75-00-3	Chloroethane	ND	0.83	0.28	ND	0.31	0.11	
67-64-1	Acetone	8.1	8.3	1.3	3.4	3.5	0.54	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.3	0.83	0.28	0.24	0.15	0.050	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	8.3	0.70	ND	3.4	0.28	
75-35-4	1,1-Dichloroethene	ND	0.83	0.28	ND	0.21	0.071	
75-09-2	Methylene Chloride	0.98	0.83	0.28	0.28	0.24	0.081	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.48	0.83	0.28	0.062	0.11	0.037	J
75-15-0	Carbon Disulfide	ND	8.3	0.25	ND	2.7	0.080	
156-60-5	trans-1,2-Dichloroethene	ND	0.83	0.32	ND	0.21	0.080	
75-34-3	1,1-Dichloroethane	ND	0.83	0.27	ND	0.21	0.066	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	0.28	ND	0.23	0.078	
108-05-4	Vinyl Acetate	ND	8.3	1.1	ND	2.4	0.31	
78-93-3	2-Butanone (MEK)	1.7	8.3	0.35	0.57	2.8	0.12	J
156-59-2	cis-1,2-Dichloroethene	ND	0.83	0.27	ND	0.21	0.067	

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.

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-S-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-002

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: AS01221

Date Collected: 6/1/17

Date Received: 6/5/17

Date Analyzed: 6/8/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.66

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	1.9	1.7	0.58	0.52	0.46	0.16	
110-54-3	n-Hexane	0.42	0.83	0.25	0.12	0.24	0.071	J
67-66-3	Chloroform	ND	0.83	0.28	ND	0.17	0.058	
109-99-9	Tetrahydrofuran (THF)	3.7	0.83	0.33	1.3	0.28	0.11	
107-06-2	1,2-Dichloroethane	ND	0.83	0.27	ND	0.21	0.066	
71-55-6	1,1,1-Trichloroethane	ND	0.83	0.28	ND	0.15	0.052	
71-43-2	Benzene	2.7	0.83	0.27	0.84	0.26	0.083	
56-23-5	Carbon Tetrachloride	0.40	0.83	0.25	0.064	0.13	0.040	J
110-82-7	Cyclohexane	ND	1.7	0.48	ND	0.48	0.14	
78-87-5	1,2-Dichloropropane	ND	0.83	0.27	ND	0.18	0.057	
75-27-4	Bromodichloromethane	ND	0.83	0.25	ND	0.12	0.037	
79-01-6	Trichloroethene	0.29	0.83	0.23	0.053	0.15	0.043	J
123-91-1	1,4-Dioxane	ND	0.83	0.27	ND	0.23	0.074	
142-82-5	n-Heptane	0.37	0.83	0.28	0.089	0.20	0.069	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.23	ND	0.18	0.051	
108-10-1	4-Methyl-2-pentanone	ND	0.83	0.27	ND	0.20	0.065	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.27	ND	0.18	0.059	
79-00-5	1,1,2-Trichloroethane	ND	0.83	0.27	ND	0.15	0.049	
108-88-3	Toluene	2.6	0.83	0.28	0.68	0.22	0.075	
591-78-6	2-Hexanone	ND	0.83	0.27	ND	0.20	0.065	

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

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Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-S-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-002

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: AS01221

Date Collected: 6/1/17

Date Received: 6/5/17

Date Analyzed: 6/8/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 3.67

Canister Dilution Factor: 1.66

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	0.83	0.27	ND	0.097	0.031	
106-93-4	1,2-Dibromoethane	ND	0.83	0.27	ND	0.11	0.035	
127-18-4	Tetrachloroethene	ND	0.83	0.23	ND	0.12	0.034	
108-90-7	Chlorobenzene	ND	0.83	0.27	ND	0.18	0.058	
100-41-4	Ethylbenzene	0.93	0.83	0.27	0.21	0.19	0.061	
179601-23-1	m,p-Xylenes	1.9	1.7	0.50	0.45	0.38	0.11	
75-25-2	Bromoform	ND	0.83	0.25	ND	0.080	0.024	
100-42-5	Styrene	ND	0.83	0.25	ND	0.20	0.059	
95-47-6	o-Xylene	0.64	0.83	0.25	0.15	0.19	0.057	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.83	0.25	ND	0.12	0.036	
98-82-8	Cumene	ND	0.83	0.25	ND	0.17	0.051	
622-96-8	4-Ethyltoluene	ND	0.83	0.27	ND	0.17	0.054	
108-67-8	1,3,5-Trimethylbenzene	ND	0.83	0.27	ND	0.17	0.054	
95-63-6	1,2,4-Trimethylbenzene	0.49	0.83	0.25	0.099	0.17	0.051	J
100-44-7	Benzyl Chloride	ND	0.83	0.18	ND	0.16	0.035	
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.25	ND	0.14	0.041	
106-46-7	1,4-Dichlorobenzene	ND	0.83	0.23	ND	0.14	0.039	
95-50-1	1,2-Dichlorobenzene	ND	0.83	0.25	ND	0.14	0.041	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	0.27	ND	0.11	0.036	
91-20-3	Naphthalene	ND	0.83	0.30	ND	0.16	0.057	
87-68-3	Hexachlorobutadiene	ND	0.83	0.23	ND	0.078	0.022	

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 1 of 3

Client: Waste Management-Stony Hollow Landfill

Client Sample ID: Method Blank

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P170607-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: 6/7/17

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	L
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.

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

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: P1702690

ALS Sample ID: P170607-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: 6/7/17

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: P1702690

ALS Sample ID: P170607-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: 6/7/17

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	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: P1702690

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: 6/1/17
 Date(s) Received: 6/5/17
 Date(s) Analyzed: 6/7 - 6/8/17

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	P170607-MB	99	99	103	70-130	
Lab Control Sample	P170607-LCS	98	97	106	70-130	
SHAA-N-06	P1702690-001	100	99	105	70-130	
SHAA-N-06	P1702690-001DUP	101	98	104	70-130	
SHAA-S-06	P1702690-002	100	98	104	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: P1702690

ALS Sample ID: P170607-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: 6/7/17

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	189	90	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	191	91	68-109	
74-87-3	Chloromethane	210	205	98	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	180	85	66-114	
75-01-4	Vinyl Chloride	210	197	94	61-125	
106-99-0	1,3-Butadiene	210	242	115	62-144	
74-83-9	Bromomethane	210	278	132	73-123	L
75-00-3	Chloroethane	210	197	94	69-122	
67-64-1	Acetone	1,060	937	88	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	181	86	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	401	95	66-121	
75-35-4	1,1-Dichloroethene	213	188	88	76-118	
75-09-2	Methylene Chloride	212	194	92	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	184	87	73-114	
75-15-0	Carbon Disulfide	213	193	91	57-102	
156-60-5	trans-1,2-Dichloroethene	213	190	89	74-123	
75-34-3	1,1-Dichloroethane	212	179	84	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	181	85	69-113	
108-05-4	Vinyl Acetate	1,060	989	93	76-128	
78-93-3	2-Butanone (MEK)	212	190	90	63-127	
156-59-2	cis-1,2-Dichloroethene	212	182	86	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: P1702690

ALS Sample ID: P170607-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: 6/7/17

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	389	91	68-127	
110-54-3	n-Hexane	213	172	81	55-116	
67-66-3	Chloroform	212	184	87	70-109	
109-99-9	Tetrahydrofuran (THF)	213	184	86	72-113	
107-06-2	1,2-Dichloroethane	212	178	84	69-113	
71-55-6	1,1,1-Trichloroethane	212	188	89	72-115	
71-43-2	Benzene	212	177	83	65-107	
56-23-5	Carbon Tetrachloride	213	200	94	71-113	
110-82-7	Cyclohexane	425	388	91	71-115	
78-87-5	1,2-Dichloropropane	212	181	85	71-115	
75-27-4	Bromodichloromethane	214	203	95	75-118	
79-01-6	Trichloroethene	212	189	89	68-114	
123-91-1	1,4-Dioxane	213	193	91	81-131	
142-82-5	n-Heptane	213	185	87	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	213	101	77-126	
108-10-1	4-Methyl-2-pentanone	213	209	98	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	228	107	79-125	
79-00-5	1,1,2-Trichloroethane	212	192	91	75-119	
108-88-3	Toluene	212	184	87	59-118	
591-78-6	2-Hexanone	213	193	91	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: P1702690

ALS Sample ID: P170607-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: 6/7/17

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	213	100	74-136	
106-93-4	1,2-Dibromoethane	212	202	95	73-131	
127-18-4	Tetrachloroethene	213	179	84	65-130	
108-90-7	Chlorobenzene	212	173	82	68-120	
100-41-4	Ethylbenzene	212	189	89	68-122	
179601-23-1	m,p-Xylenes	424	357	84	68-123	
75-25-2	Bromoform	212	235	111	69-130	
100-42-5	Styrene	212	197	93	71-133	
95-47-6	o-Xylene	212	182	86	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	192	91	69-130	
98-82-8	Cumene	212	191	90	70-123	
622-96-8	4-Ethyltoluene	212	186	88	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	185	87	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	187	88	67-129	
100-44-7	Benzyl Chloride	212	259	122	79-138	
541-73-1	1,3-Dichlorobenzene	212	194	92	65-136	
106-46-7	1,4-Dichlorobenzene	213	181	85	66-141	
95-50-1	1,2-Dichlorobenzene	212	193	91	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	227	107	64-134	
91-20-3	Naphthalene	214	244	114	62-136	
87-68-3	Hexachlorobutadiene	213	199	93	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-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001DUP

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01140

Initial Pressure (psig): -2.29

Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	0.857	0.498	0.943	0.548	0.9	10	25	
Dichlorodifluoromethane (CFC 12)	2.39	0.484	2.40	0.486	2.395	0.4	25	
Chloromethane	0.460	0.223	0.311	0.151	0.3855	39	25	J, R1
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	L
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	7.61	3.21	7.33	3.09	7.47	4	25	
Trichlorofluoromethane	1.39	0.248	1.41	0.251	1.4	1	25	
2-Propanol (Isopropyl Alcohol)	1.21	0.493	1.11	0.452	1.16	9	25	J
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.896	0.258	0.911	0.262	0.9035	2	25	
Trichlorotrifluoroethane	0.488	0.0637	0.479	0.0625	0.4835	2	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)	0.840	0.285	0.837	0.284	0.8385	0.4	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.

R1 = Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.

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

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Waste Management-Stony Hollow Landfill

Client Sample ID: SHAA-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001DUP

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01140

Initial Pressure (psig): -2.29

Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethyl Acetate	2.07	0.574	2.09	0.580	2.08	1	25	
n-Hexane	0.299	0.0849	0.302	0.0858	0.3005	1	25	J
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	0.501	0.170	0.495	0.168	0.498	1	25	J
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.533	0.167	0.529	0.166	0.531	0.8	25	J
Carbon Tetrachloride	0.409	0.0650	0.422	0.0671	0.4155	3	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	ND	ND	-	-	25	
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	1.05	0.280	1.04	0.276	1.045	1	25	
2-Hexanone	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-N-06

Client Project ID: Stony Hollow Landfill

ALS Project ID: P1702690

ALS Sample ID: P1702690-001DUP

Test Code: EPA TO-15

Date Collected: 6/1/17

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

Date Received: 6/5/17

Analyst: Wida Ang

Date Analyzed: 6/8/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01140

Initial Pressure (psig): -2.29

Final Pressure (psig): 3.47

Canister Dilution Factor: 1.46

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.238	0.0351	0.218	0.0321	0.228	9	25	J
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	0.480	0.111	0.464	0.107	0.472	3	25	J
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.

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



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: **1706035**

Dear Alex,

ALS Environmental received 2 samples on 01-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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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1706035

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>
1706035-01	SHAA-N-06	Air		6/1/2017	6/1/2017	<input type="checkbox"/>
1706035-02	SHAA-S-06	Air		6/1/2017	6/1/2017	<input type="checkbox"/>

Client: Waste Management
Project: Stony Hollow Landfill
Work Order: 1706035

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: 1706035

Analytical Results

Lab ID: 1706035-01A
Client Sample ID: SHAA-N-06

Collection Date: 6/1/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: JMB
Date Analyzed: 6/5/2017 13:33		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	
Crotonaldehyde	ND	0.090	<0.0022	
Formaldehyde	0.11	0.090	0.0021	
Hexanaldehyde	ND	0.090	<0.0016	
Propionaldehyde	0.17	0.090	0.0036	

Lab ID: 1706035-02A
Client Sample ID: SHAA-S-06

Collection Date: 6/1/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1440	Analyst: JMB
Date Analyzed: 6/5/2017 13:33		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	
Crotonaldehyde	ND	0.090	<0.0022	
Formaldehyde	0.12	0.090	0.0023	
Hexanaldehyde	ND	0.090	<0.0016	
Propionaldehyde	0.26	0.090	0.0054	

Note:

Client: Waste Management
Work Order: 1706035
Project: Stony Hollow Landfill

QC BATCH REPORT

Batch ID: **43573** Instrument ID: **HPLC2** Method: **O1007**

MBLK	Sample ID: MBLK-43573-43573		Units: µg/sample		Analysis Date: 6/5/2017 01:33 PM					
Client ID:	Run ID: _170605A		SeqNo: 1518412		Prep Date: 6/5/2017	DF: 1				
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: LCS-43573-43573		Units: µg/sample		Analysis Date: 6/5/2017 01:33 PM					
Client ID:	Run ID: _170605A		SeqNo: 1518413		Prep Date: 6/5/2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Acetaldehyde	1.56	0.045	1.5	0	104	70-130	0			
Benzaldehyde	1.503	0.045	1.5	0	100	70-130	0			
Butyraldehyde	1.507	0.045	1.5	0	100	70-130	0			
Crotonaldehyde	1.515	0.045	1.5	0	101	70-130	0			
Formaldehyde	1.505	0.045	1.5	0	100	70-130	0			
Hexanaldehyde	1.492	0.045	1.5	0	99.5	70-130	0			
Propionaldehyde	1.516	0.045	1.5	0	101	70-130	0			

LCSD	Sample ID: LCSD-43573-43573		Units: µg/sample		Analysis Date: 6/5/2017 01:33 PM					
Client ID:	Run ID: _170605A		SeqNo: 1518420		Prep Date: 6/5/2017	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Acetaldehyde	1.452	0.045	1.5	0	96.8	70-130	1.56	7.15	20	
Benzaldehyde	1.419	0.045	1.5	0	94.6	70-130	1.503	5.75	20	
Butyraldehyde	1.413	0.045	1.5	0	94.2	70-130	1.507	6.45	20	
Crotonaldehyde	1.42	0.045	1.5	0	94.7	70-130	1.515	6.47	20	
Formaldehyde	1.411	0.045	1.5	0	94	70-130	1.505	6.46	20	
Hexanaldehyde	1.546	0.045	1.5	0	103	70-130	1.492	3.55	20	
Propionaldehyde	1.424	0.045	1.5	0	95	70-130	1.516	6.2	20	

The following samples were analyzed in this batch: 1706035-01A 1706035-02A

Client: Waste Management
Project: Stony Hollow Landfill
WorkOrder: 1706035

**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: 01-Jun-17 00:00

Work Order: 1706035

Received by: JNW

Checklist completed by: J an Wilcox 01-Jun-17
eSignature | Date

Reviewed by: Rob Nieman 02-Jun-17
eSignature | Date

Matrices:

Carrier name: ALSHN

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.6

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:



**ANALYTICAL SERVICES REQUEST
AND CHAIN OF CUSTODY**

Send to LJB: <input type="checkbox"/> Invoice <input checked="" type="checkbox"/> Results	Send to: <input checked="" type="checkbox"/> Invoice <input checked="" type="checkbox"/> Results
Contact: Alex Zelles	Contact: Peter Lucas
Address/Email: azelles@ljbinc.com 2500 Newmark Drive Miamisburg, OH 45342	Address/Email: plucas2@wm.com 1706035
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: <i>Alex Zelles</i>	
<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Standard turnaround Need by: 3-day turnaround	<input type="checkbox"/> Phone results <input type="checkbox"/> Fax results <input checked="" type="checkbox"/> Email results
Special instructions:	

Sample ID	Date	Time	Matrix	Comp	Grab	# Btls	OSHA-1007	Analysis Requested						Remarks:
SHAA-N-06	5/31/17- 6/1/17	0934- 0936	Air	01	X	1	X							
SHAA-S-06	5/31/17- 6/1/17	0958- 0958	Air	02	X	1	X							

Sample ID	Date	Time	Matrix	Comp	Grab	# Btls
SHAA-N-06	5/31/17- 6/1/17	0934- 0936	Air	01	X	1
SHAA-S-06	5/31/17- 6/1/17	0958- 0958	Air	02	X	1

ALS LAB USE ONLY	
COOLER TEMP: 4.6 °C	pH ADJUSTMENTS:
COOLING METHOD: NONE <input checked="" type="checkbox"/> COOLER <input type="checkbox"/> WET ICE <input type="checkbox"/> DRY ICE <input checked="" type="checkbox"/> ICE PACK	
DELIVERY METHOD: <input type="checkbox"/> STD MAIL <input type="checkbox"/> PRTY MAIL <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> DROP BOX <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER:	
CUSTODY SEALS: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> COOLER <input type="checkbox"/> PACKAGE <input type="checkbox"/> SAMPLES	
EQUIP. RETURNED:	

Relinquished by: <i>[Signature]</i>	Date/time: 6/1/17 10:45 AM	Received by: <i>[Signature]</i>	Date/time: 6-1-17 1045 AM
Relinquished by: <i>[Signature]</i>	Date/time: 6-1-17 217p	Received by: <i>[Signature]</i>	Date/time: 6/1/17 1416
Relinquished by: <i>[Signature]</i>	Date/time: 6/1/17 1640	Received at lab by: <i>[Signature]</i>	Date/time: 6/1/17 1640