



14-Mar-2016

Roger Bellas
Pennsylvania DEP Bureau of Air Quality
12th Floor RCSOB
400 Market Street
Harrisburg, PA 17105

Tel: (570) 826-2511
Fax:

Re: Keystone Landfill Site (KSL)- 2/25/2016

Work Order: **16021097**

Dear Roger,

ALS Environmental received 6 samples on 26-Feb-2016 09:30 AM 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 6.

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

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Client: Pennsylvania DEP Bureau of Air Quality
Project: Keystone Landfill Site (KSL)- 2/25/2016
Work Order: 16021097

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>
16021097-01	KSL022516-1 / Red	Air		2/25/2016 11:02	2/26/2016 09:30	<input type="checkbox"/>
16021097-02	KSL022516-2 / Blue	Air		2/25/2016 11:02	2/26/2016 09:30	<input type="checkbox"/>
16021097-03	KSL022516-3 / Green	Air		2/25/2016 11:02	2/26/2016 09:30	<input type="checkbox"/>
16021097-04	KSL022516-4 / Orange	Air		2/25/2016 11:02	2/26/2016 09:30	<input type="checkbox"/>
16021097-05	KSL022516-5 / Yellow	Air		2/25/2016 11:02	2/26/2016 09:30	<input type="checkbox"/>
16021097-06	KSL022516-Summa	Air		2/25/2016 10:45	2/26/2016 09:30	<input type="checkbox"/>

Client: Pennsylvania DEP Bureau of Air Quality
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Work Order: 16021097

Analytical Results

Lab ID: 16021097-02A
Client Sample ID: KSL022516-2 / Blue

Collection Date: 2/25/2016 11:02:00 AM
Matrix: AIR

Analyses

ALDEHYDES BY HPLC		Method: ETO-11	Air Volume (L): 215.4	Analyst: JMB
Date Analyzed: 3/4/2016 20:31		Reporting Limit		
	µg/sample	µg/sample	mg/m3	ppb
Acetaldehyde	0.21	0.20	0.00096	0.53
Acrolein	ND	16	<0.074	<32
Formaldehyde	ND	0.20	<0.00093	<0.76

Note:

ALS Environmental

Date: 14-Mar-16

Client: Pennsylvania DEP Bureau of Air Quality
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QC BATCH REPORT

Batch ID: **34174** Instrument ID: **HPLC1** Method: **ETO-11**

MBLK		Sample ID: MBLK-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235829		Prep Date: 3/4/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Formaldehyde	ND	0.20								

LCS		Sample ID: LCS-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235849		Prep Date: 3/4/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.608	0.20	2	0	80.4	70-130	0			
Formaldehyde	2.036	0.20	2	0	102	70-130	0			

LCSD		Sample ID: LCSD-34174-34174			Units: µg/sample		Analysis Date: 3/4/2016 08:31 PM			
Client ID:		Run ID: HPLC1_160304A			SeqNo: 1235840		Prep Date: 3/4/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	1.632	0.20	2	0	81.6	70-130	1.608	1.48	20	
Formaldehyde	2.065	0.20	2	0	103	70-130	2.036	1.41	20	

The following samples were analyzed in this batch: 16021097-02A

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

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**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	
ppbv	
ppm	

Sample Receipt Checklist

Client Name: PADEP-HARRISBURG

Date/Time Received: 26-Feb-16 09:30

Work Order: 16021097

Received by: SNH

Checklist completed by: Stephanie Harrington 29-Feb-16
eSignature Date

Reviewed by: Rob Nieman 02-Mar-16
eSignature Date

Matrices:

Carrier name: FedEx

- 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 [checked] No [] Not Present []
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): 4.9

Cooler(s)/Kit(s):

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

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

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

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: