



**GALSON**

**Mr. Ben Chandler  
GHD Services Inc.  
11719 Hinson Road  
Suite 100  
Little Rock, AR 72212**

**July 09, 2019**

**Account# 29016**

**Login# L484558**

**Dear Ben Chandler:**

**Enclosed are the analytical results for the samples received by our laboratory on July 01, 2019. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.**

**Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.**

**Sincerely,**

**SGS Galson**

A handwritten signature in black ink that reads 'Lisa Swab'. The signature is written in a cursive, flowing style.

**Lisa Swab  
Laboratory Director**

**Enclosure(s)**

**Terms and Conditions & General Disclaimers**

- This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**Analytical Disclaimers**

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client’s direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample’s representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at [www.sgs.com](http://www.sgs.com).
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

**Accreditations** SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at <http://www.sgs.com> in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

  

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

**Legend**

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms



**GALSON**

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

6601 Kirkville Road  
East Syracuse, NY 13057  
(315) 432-5227  
FAX: (315) 437-0571  
www.sgsgalson.com

Client : GHD Services Inc.  
Site : LAKE COUNTY  
Project No. : 11197130 11197364  
Date Sampled : 27-JUN-19 - 28-JUN-19  
Date Received : 01-JUL-19

Account No.: 29016  
Login No. : L484558  
Date Analyzed : 02-JUL-19  
Report ID : 1144921

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**Ethylene Oxide**

Galson ID: L484558-1 L484558-2  
Client ID: AIR-11197130-DS-40 AIR-11197130-DS-47

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	LOQ	LOQ	ppbv	ug/m3	ppbv	ug/m3
	ppbv	ug/m3				
Ethylene oxide	0.040	0.072	0.11	0.20	<0.040	<0.072

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Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS  
Collection Media : 6L Canister  
Submitted by : BHB

Supervisor: SAP  
Approved by : SAP  
Date : 09-JUL-19

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LABORATORY FOOTNOTE REPORT

6601 Kirkville Road  
East Syracuse, NY 13057  
(315) 432-5227  
FAX: (315) 437-0571  
www.sgsgalson.com

Client Name : GHD Services Inc.  
Site : LAKE COUNTY  
Project No. : 11197130/11197364

Date Sampled : 27-JUN-19 - 28-JUN-19 Account No.: 29016  
Date Received: 01-JUL-19 Login No. : L484558  
Date Analyzed: 02-JUL-19

L484558 (Report ID: 1144921):

NYSDOH does not offer a certification for the following compounds:  
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane,  
Ethanol, Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.  
SOPs: in-vocs(36)

L484558 (Report ID: 1144921):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Ethylene oxide	+/-34.6%	103%



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GC/MS Incoming Canister Log

**Login:** L484558

**Date:** 02-JUL-19

**Recorded by:** Brian Bush

<i>Sample #</i>	<i>Can Id</i>	<i>Incoming Pressure</i>	<i>Prep Number</i>	<i>Scan date</i>	<i>Scan user</i>
L484558-1	WL199	-5.57	PSY532558	02-JUL-19	Brian Bush
L484558-2	WL061	-2.27	PSY532558	02-JUL-19	Brian Bush

M84558



**GALSON**

**CHAIN OF CUSTODY**

Alisha's Station

491552810878  
Date: 07/01/19  
Shipper: FEDEX  
Initials: AJB



Prep: UNKNOWN

Turn Around Time (TAT): (surcharge)	Client Acct No.: 29016	Report To: Mr. Ben Chandler	Invoice To: ACCOUNTS PAYABLE
<input checked="" type="checkbox"/> Standard 0%	Company Name: GHD Services Inc.	Address 1: 11719 Hinson Road	Company Name: GHD Services Inc.
<input type="checkbox"/> 4 Business Days 35%	Original Prep No.:	Address 2: Suite 100	Address 1: 2055 Niagara Falls Blvd
<input type="checkbox"/> 3 Business Days 50%	Online COC No.: 184772	City, State Zip: Little Rock, AR 72212	Address 2: Suite 3
<input type="checkbox"/> 2 Business Days 75%		Phone No.: 501 - 366 - 3999	City, State Zip: Niagara Falls, NY 14304
<input type="checkbox"/> Next Day by 6pm 100%		Cell No.:	Phone No.:
<input type="checkbox"/> Next Day by Noon 150%		Email reports to: benjamin.chandler@ghd.com, dyron.hamlin@ghd.com	Email Address: Jennifer.Devonshire@ghd.com
<input type="checkbox"/> Same Day 200%		Email EDD to: benjamin.chandler@ghd.com, dyron.hamlin@ghd.com	Comments:
<input type="checkbox"/> Samples submitted using the FreePumpLoan™ Program		Comments:	P.O. No.:
<input type="checkbox"/> Samples submitted using the FreeSamplingBadges™ Program			Payment info: <input type="checkbox"/> I will call SGS Galson to provide credit card info <input type="checkbox"/> Card on File (enter the last five digits on the line below)

Comments: Ambient Air Samples - Ethylene Oxide Reports Results in ug/m3 and ppb

State Sampled: IL

Please indicate which OEL(s) this data will be used for:  
 OSHA PEL  ACGIH TLV  MSHA  Cal OSHA  
 IAO: \_\_\_\_\_  Other: \_\_\_\_\_  
Specify Limit(s) Specify Other

Site Name: LAKE COUNTY Project: 11197130/11197364 Sampled By: Daniel Showalter

List description of industry or Process/interferences present in sampling area:

Sample ID (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area	Liters Minutes in <sup>2</sup> , cm <sup>2</sup> , ft <sup>2</sup>	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AIR-11197130-DS-40	6/27/2019	6 L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
AIR-11197130-DS-47	6/28/2019	6 L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature	Date	Time	Print Name / Signature	Date	Time
Relinquished By:	Daniel Showalter	6/28/2019	15:15	Received By:		
Relinquished By:				Received By: Alisha Benach	7/1/19	11:43

Samples received after 3pm will be considered as next day's business.

Online COC No.: 184772  
Prep No.:  
Account No.: 29016  
Finalized: 6/28/2019 4:15:22 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: <http://www.sgs.com/en/Terms-and-Conditions.aspx>