



Scott Austin Georgia-Pacific Toledo LLC 1400 S.E. Butler Bridge Road Toledo, OR 97391

Laboratory Results for: Process Water Methanol Test

Dear Scott,

Enclosed are the results of the sample(s) submitted to our laboratory May 10, 2024 For your reference, these analyses have been assigned our service request number **K2404861**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3377. You may also contact me via email at Sydney.Wolf@alsglobal.com.

Respectfully submitted,

July a Wole

ALS Group USA, Corp. dba ALS Environmental

Sydney A. Wolf Project Manager



Narrative Documents



Client:Georgia-Pacific Toledo LLCService Request: K2404861Project:Process Water Methanol TestDate Received: 05/10/2024

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 05/10/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

No significant anomalies were noted with this analysis.



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PM 1 White Water	Lab ID: K2404861-001						
Analyte	Results	Flag	MDL	MRL	Units	Method	
Methanol	16			0.50	ug/mL	NCASI MeOH-94.03	
CLIENT ID: PM 2 White Water		Lab	ID: K2404	1861-002			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Methanol	4.1			0.50	ug/mL	NCASI MeOH-94.03	
CLIENT ID: PM 3 White Water	Lab ID: K2404861-003						
Analyte	Results	Flag	MDL	MRL	Units	Method	
Methanol	0.99			0.50	ug/mL	NCASI MeOH-94.03	
CLIENT ID: Washer Shower Water	Lab ID: K2404861-004						
Analyte	Results	Flag	MDL	MRL	Units	Method	
Methanol	38			0.50	ug/mL	NCASI MeOH-94.03	



Sample Receipt Information

Georgia-Pacific Toledo LLC Service Request:K2404861

Project: Process Water Methanol Test

Client:

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
K2404861-001	PM 1 White Water	5/9/2024	0957
K2404861-002	PM 2 White Water	5/9/2024	0948
K2404861-003	PM 3 White Water	5/9/2024	0942
K2404861-004	Washer Shower Water	5/9/2024	1011

ALS Environmental

1317 South 13th, Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

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Project Name: Process Water Methanol Test Project Number:									Anulysi	Requeste	d
Project Manager: Micah Leis Company: Georgia-Pacific Toledo LLC						e, EK	160H				
Company/Address: 1400 S.E. Butler Bridge Road Phone: 541-336-8318							Methanol (NCASI MeOH- 94.03)				
City, State, Zip: Toledo, Oregon, 9	7391	F	AX: <u>541-336-5044</u>		r of Containers	Acetaldehyde, naldehyde, MEK I HAPS-99.01)	I (NC				
Sampler's Signature:					Numbe		ASI F				
Sample I.D.	Date	Time	LAB ID	Matrix	Z	HAPS - Propion (NCASI	Me 94.0		j		REMARKS
PM 1 White Water	5/9/2024	9:57 AM		condensate	1		x				HCI preserved
PM 2 White Water	5/9/2024	9:48 AM		condensate	1		x	·			HCl preserved
PM 3 White Water	5/9/2024	9:42 AM		condensate	1		x				HCl preserved
Washer Shower Water	5/9/2024	10:11 AM		condensate	1		X				HCl preserved
TURNAROUND REQUIREMENTS			EPORT REQUIREMENTS	. D	Comments/Special Instructions:						
24 hr 48 hr 5 x Standard (21 days)	day		I. Routine Report: Results, Method Surrogate, as required	i Blank,	See attached compositing info						
Provide FAX Preliminary Result	ts	x	II. Report Dup., MS, MSD as requ	ired	See attached compositing into						
Requested Report Date:			III. Data Validation Report (includ	les							
Invoice Information P.O. # 02117929			raw data) IV. CLP Deliverable Report								
Bill to:Micah Leis			V. EDD								
RELINQUISHED BY: RECEIVED BY:		A	RELINQUISHED BY:				RECEIVED BY:				
Signature: San Sagur			Signa	ture:			· · · · · · · · · · · · · · · · · · ·	Signature:			
		Printed Na	me: Phan forth	<u>v</u>	Printe	ed Name: _				Printed Nar	me:
Firm: GP Toledo Firm:		Firm:	JAD.		Firm:					Firm:	
\sim				Date/	Date/Time: Date/Time:						

lient ()	> TOLEN	\bigcirc	Cooler Receipt a	nd Pr	'eserv			*	54861	РМ	
Received:	110/24	_ Opened: _	5110/24	Ву: _	MM	_Serv	ce Request I	MOIK	24 By:	MM	
. Samples we	re received via? re received in: (cir y seals on coolers? ere custody seals in	1	oler Box NA Y N If	yes, ho	-	and w	PDX Other here? ned and dated	Courier		ivered NA N	
Temp Blank	Sample Temp	IR Guin、 エム()	Cooler #/COC ID / NA		Out of idicate		PM Notific If out of		Tracking Numb	er NA	Filed
If no, take t	_	a representative	NA Y N II e sample bottle containe cified temperature range	d withir		_			column above: ole Temp":) N	
If no, were t		e and same day	as collected? If not, no Frozen Partially The	tate the	cooler i Thawe Ice D	đ	e and notify th	ne PM.	NA Y	N	
 Were samp Were all sa 	dy papers properly les received in goo mple labels comple ple labels and tags	d condition (u	nbroken) s, preservation, etc.)?	,					NA Y NA Y NA Y	NNNNNN	
12. Were the p	H-preserved bottle	s (see SMO Gi	umes received for the te EN SOP) received at the e? Indicate in the table	approp		[? Ind	icate in the tal	ble below	NA Y NA Y	N N N	
-	oles received within		pecified time limit? If no		te the er	``	ow and notify	the PM	NA Y NA Y Underfilled	N N Overfille	d .
<u> </u>	ample ID on Bo	ttle	Sample	ID on	COC				Identified by:		·
	Sample ID		Bottle Count Bottle Type	Head- space	Broke	рH	Reagent	Volume added	Reagent Lot Number	initials	Time
Notes Dis	rrenancies Res	olutions:		<u> </u>	<u>L</u>	<u></u>					

G:\SMO\2024 Forms

SOP: SMO-GEN Page 8 of 25 Reviewed: NP 1/3/2024



Miscellaneous Forms

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- F. The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-	
North Carolina DEQ	certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LOD Limit of Detection
LOQ Limit of Quantitation

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a substance

allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater than or

equal to the MDL.

Analyst Summary report

Client: Georgia-Pacific Toledo LLC

Project: Process Water Methanol Test/

Sample Name: PM 1 White Water **Lab Code:** K2404861-001

Sample Matrix: Water

Date Collected: 05/9/24 **Date Received:** 05/10/24

Service Request: K2404861

Analysis Method

NCASI MeOH-94.03

Extracted/Digested ByJDEMERS

Analyzed ByJDEMERS

Sample Name: PM 2 White Water **Lab Code:** K2404861-002

Sample Matrix: Water

Date Collected: 05/9/24 **Date Received:** 05/10/24

Analysis Method

NCASI MeOH-94.03

Extracted/Digested By

JDEMERS

Analyzed By

JDEMERS

Sample Name: PM 3 White Water **Lab Code:** K2404861-003

Water

Sample Matrix:

Date Collected: 05/9/24

Date Received: 05/10/24

Analysis Method

NCASI MeOH-94.03

Extracted/Digested By

JDEMERS

Analyzed By
JDEMERS

Sample Name: Washer Shower Water

Lab Code:

K2404861-004

Sample Matrix: Water

Date Collected: 05/9/24 **Date Received:** 05/10/24

Analysis Method

NCASI MeOH-94.03

Extracted/Digested By

JDEMERS

Analyzed By

JDEMERS



Sample Results



Semivolatile Organic Compounds by GC

Analytical Report

Client: Georgia-Pacific Toledo LLC Service Request: K2404861

Project: Process Water Methanol Test Date Collected: 05/09/24 09:57

Sample Matrix: Water Date Received: 05/10/24 10:10

 Sample Name:
 PM 1 White Water
 Units: ug/mL

 Lab Code:
 K2404861-001
 Basis: NA

Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

 Analyte Name
 Result
 MRL
 Dil.
 Date Analyzed
 Date Extracted
 Q

 Methanol
 16
 0.50
 1
 05/14/24 11:44
 5/10/24

Analytical Report

Client: Georgia-Pacific Toledo LLC Service Request: K2404861 **Date Collected:** 05/09/24 09:48 **Project:** Process Water Methanol Test

Date Received: 05/10/24 10:10 **Sample Matrix:** Water

Sample Name: PM 2 White Water Units: ug/mL Lab Code: K2404861-002 Basis: NA

Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

Analyte Name Result **MRL** Dil. **Date Analyzed Date Extracted** Q 4.1 0.50 05/14/24 12:49 5/10/24 Methanol

Analytical Report

Client: Georgia-Pacific Toledo LLC Service Request: K2404861

Project: Process Water Methanol Test Date Collected: 05/09/24 09:42

Sample Matrix: Water Date Received: 05/10/24 10:10

 Sample Name:
 PM 3 White Water
 Units: ug/mL

 Lab Code:
 K2404861-003
 Basis: NA

Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

 Analyte Name
 Result
 MRL
 Dil.
 Date Analyzed
 Date Extracted
 Q

 Methanol
 0.99
 0.50
 1
 05/14/24 13:11
 5/10/24

Analytical Report

Client:Georgia-Pacific Toledo LLCService Request:K2404861Project:Process Water Methanol TestDate Collected:05/09/24 10:11

Sample Matrix: Water Date Received: 05/10/24 10:10

Sample Name:Washer Shower WaterUnits: ug/mLLab Code:K2404861-004Basis: NA

Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

 Analyte Name
 Result
 MRL
 Dil.
 Date Analyzed
 Date Extracted
 Q

 Methanol
 38
 0.50
 1
 05/14/24 13:33
 5/10/24



QC Summary Forms



Semivolatile Organic Compounds by GC

QA/QC Report

Client:Georgia-Pacific Toledo LLCService Request:K2404861Project:Process Water Methanol TestDate Collected:05/09/24Sample Matrix:WaterDate Received:05/10/24Date Analyzed:05/14/24

Date Extracted: 05/10/24

Matrix Spike Summary

Methanol in Process Liquids by GC/FID

 Sample Name:
 PM 1 White Water
 Units:
 ug/mL

 Lab Code:
 K2404861-001
 Basis:
 NA

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

Matrix Spike KQ2407116-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Methanol	16	68.6	50.0	104	61-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Printed 5/15/2024 2:50:04 PM Superset Reference:24-0000696826 rev 00

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:Georgia-Pacific Toledo LLCService Request:K2404861ProjectProcess Water Methanol TestDate Collected:05/09/24Sample Matrix:WaterDate Received:05/10/24

Date Analyzed: 05/14/24

Replicate Sample Summary

Methanol in Process Liquids by GC/FID

 Sample Name:
 PM 1 White Water
 Units: ug/mL

 Lab Code:
 K2404861-001
 Basis: NA

Basis: NA
Duplicate

Sample Sample KQ2407116-03

Analysis Method Analyte Name MRL Result Result Average **RPD RPD Limit** NCASI MeOH-94.03 Methanol 0.50 16 18 17.1 8 30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client: Georgia-Pacific Toledo LLC Service Request: K2404861

Project: Process Water Methanol Test Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name:Method BlankUnits: ug/mLLab Code:KQ2407116-01Basis: NA

Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Method

 Analyte Name
 Result
 MRL
 Dil.
 Date Analyzed
 Date Extracted
 Q

 Methanol
 ND U
 0.50
 1
 05/14/24 02:43
 5/10/24

QA/QC Report

Client: Georgia-Pacific Toledo LLC **Service Request:** K2404861 **Project:** Process Water Methanol Test **Date Analyzed:** 05/14/24 Sample Matrix: Water **Date Extracted:** 05/10/24

> **Lab Control Sample Summary** Methanol in Process Liquids by GC/FID

Analysis Method: NCASI MeOH-94.03

Prep Method: Basis: Method NA

Analysis Lot: 840901

ug/mL

Units:

Lab Control Sample KQ2407116-02

Analyte Name Result **Spike Amount** % Rec % Rec Limits Methanol 52.5 105 76-134 50.0