Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 29, 2019

Cletus Ketter
Veolia North America
6001 W. Pershing Rd
Cicero, IL 60804

RE: Project: BIOSOLIDS JUNE RESAMPLE
Pace Project No.: 40191915

Dear Cletus Ketter:
Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy K Varga

Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jackie Lawless, Veolia North America
Veolia Support Services North

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SAMPLE SUMMARY

Project: BIOSOLIDS JUNE RESAMPLE
Pace Project No.: 40191915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40191915001	**PCB 072519 (JUNE SAMPLE)**	Solid	06/19/19 17:00	07/25/19 11:59

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WO#: 40191915

40191915

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40191915

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Veolia North America	Report To: cletus.ketter@veolia.com	Attention: Veolia Support Services North
6001 W. Pershing Rd	Copy To: cletus.ketter@veolia.com	Company Name: Veolia Support Services North
Cicero, IL 60804		Address: 125 S 84th St Suite 175, Milwaukee, WI 53214
Email To: cletus.ketter@veolia.com	Purchase Order No.: na	Pace Quote Reference:
Phone: na Fax: na	Project Name: BIOSOLIDS MONTHLY	Pace Project Manager: Cindy Varga
Requested Due Date/TAT:	Project Number: na	Pace Profile #: 5163

REGULATORY AGENCY

__ NPDES __GROUND WATER __DRINKING WATER

__UST __RCRA OTHER X

SITE LOCATION: __GA X IL __IN __MI __NC __OH __SC __WI OTHER____

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	1 L plastic/ whirl	Pak Bag	Filtered (Y/N)	Requested Analysis: 9222D FECAL COLIFORM**	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	PCD 072519 (JUNE SAMPLE)	SL		6/19	1700	6/19	1700		1		1		N	X		
2													N			
3													N			
4													N			
5													N			
6													N			
7																
8																
9																
10																
11																
12																

Additional Comments:

* Pace Courier to drop off at sub lab

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Cletus Ketter Veolia	7/25	1048	Kathy Wendel	7/25/19	1048
Kathy Wendel	7/25/19	1159	Suburban Labs	7/25/19	1159

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cletus Ketter

SIGNATURE of SAMPLER: Cletus Ketter

DATE Signed (MM / DD / YY): 07/25/19

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave. Geneva, IL 60134 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

40191915

Electronic Version

Company Name: Pace Analytical

Company Address: 1241 Bellevue St

City: Green Bay State: WI Zip: 54302

Phone: 920-321-9455 Fax: ☐ Fax Report

Email Address: cindy.varga@pacelabs.com ☑ Email Report

Project ID / Location: Veoila Biosolids Weekly/Cicero IL

Project Manager (Report to): Cindy Varga

Sample Collector(s):

TURNAROUND TIME REQUESTED

☑ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: ASAP

Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ Other *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

Page of

PO No.

Shipping Method

QC Reporting Level ☐ 1 ☐ 2 ☐ 3

LAB USE ONLY

SLI Order No.

Sample containers supplied by customer? ☐ Yes

Temperature of Received Samples °C

Samples received within 24 hours of collection? ☐ Yes

	SAMPLE IDENTIFICATION (Please use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	9222D Fecal Coliform	R	Condition	Split	LAB #
1	PCD07-519 (Trip Sample)	6/19/19	1700	SL	GRAB/	1	120 ml sterile	Nathiosulfate	X				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

* OK to run past hold

CONDITION CODES

1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
Kathi Lepard	7/25/19						
Received By	Time	Received By	Time	Received By	Time	Received By	Time
Andy [illegible] ☐ Ice	1159	☐ Ice		☐ Ice		☐ Ice	

Submission of samples subject to Terms and Conditions on back. Rev. 2/01/05 Please fill out this form completely, print, sign & submit with samples. Keep a copy for your records.

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

July 29, 2019

Workorder: 1907L96

Cindy Varga
Pace Analytical - WI
1241 Bellevue Street Suite 9
Green Bay, WI 54302

TEL: (920) 469-2436
FAX:
RE: Veolia Biosolids- Cicero IL

Dear Cindy Varga:

Suburban Laboratories, Inc. received 1 sample(s) on 7/25/2019 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com

Case Narrative

Client: Pace Analytical - WI
Project: Veolia Biosolids- Cicero IL
WorkOrder: **1907L96**
Temperature of samples upon receipt at SLI: **15.1 C**

Date: July 29, 2019
PO #:
QC Level:
Chain of Custody #:

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Percent Moisture and Fecal Coliform:
Sample 1907L96-001A: H=Sample received past the holding time for this test.

Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pace Analytical - WI
Project Name: Veolia Biosolids- Cicero IL

Report Date: July 29, 2019
Workorder: **1907L96**

Client Sample ID: **PCD072519 (June Sample)**
Lab ID: 1907L96-001 **Date Received:** 07/25/2019 11:59 AM

Matrix: SLUDGE
Collection Date: 06/19/2019 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
FECAL COLIFORM (MPN), CLASS A		Method: SM-9221E-Rev 18Ed, 1992				Analyst: MMM	
Fecal Coliform	<2	0	H	MPN/g-dry	1	07/25/2019 5:09 PM	R110408
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: CY	
Percent Moisture	3.4	1.0	H c	wt%	1	07/25/2019 5:30 PM	R110400

Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1907L96**

Date: **7/26/2019**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.

SUBURBAN LABORATORIES, Inc.

CHAIN OF CUSTODY RECORD

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Electronic Version

Company Name: Pace Analytical
Company Address: 1241 Bellevue St
City: Green Bay State: WI Zip: 54302
Phone: 920-321-9455 Fax: ☐ Fax Report
Email Address: cindy.varga@pacelabs.com ☑ Email Report
Project ID / Location: Veoila Biosolids Weekly/Cicero IL
Project Manager (Report to): Cindy Varga
Sample Collector(s):

TURNAROUND TIME REQUESTED
☑ Normal ☒ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed: ASAP
Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page of
PO No.
Shipping Method
QC Reporting Level ☐ 1 ☐ 2 ☐ 3

LAB USE ONLY
SLI Order No. ~~1906~~ 1907 LG 7/25
Sample containers supplied by customer? ☐ Yes HS
Temperature of Received Samples 15.1 °C
Samples received within 24 hours of collection? ☐ Yes

	SAMPLE IDENTIFICATION (Please use 1 line per container type)	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	9222D Fecal Coliform	R	Condition	Split	LAB #
1	PCD072519 (Tyne Sample)	6/19/19	1700	SL	GRAB/	1	120 ml sterile	Nathiosulfate	X				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

*OK to run past hold

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
Katherine Wendel	7/25/19						
Received By	Time	Received By	Time	Received By	Time	Received By	Time
[illegible] ☐ Ice	11:59	☐ Ice		☐ Ice		☐ Ice	