



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

Date: September 28, 2020

USEPA (6953)

Attn: Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Project Manager: Audrey Cooper

RE: Certificate of Analysis for Project - SuRGE

The following report contains analytical results for samples submitted on the chain of custody dated September 18, 2020.

I have reviewed the validity of the analytical data generated. All data is reported in accordance to our laboratory QA/QC plan. Any exceptions are noted in the Case Narrative or with qualifiers in the report.

If you have any questions or need additional documentation, please contact your Project Manager.

Sincerely,

A handwritten signature in black ink that reads "Cheryl Rex". The signature is written in a cursive style. Below the signature is a horizontal line.

Cheryl Rex
MASI Laboratories
QA/QC Officer
cheryl@masilabs.com
(614) 873-4654



CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/3/20 00:00
Sample Location: Deep CH4-044 7 Unk

Project Manager: Audrey Cooper

Sample ID: 829324

Lab Sample # : 0I03105-01 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	10.0	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/3/20 00:00
Sample Location: Deep CH4-044 7 Unk

Project Manager: Audrey Cooper

Sample ID: 829325

Lab Sample # : 0I03105-02 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	10.2	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/3/20 00:00
Sample Location: Shallow CH4-044 7 Unk

Project Manager: Audrey Cooper

Sample ID: 829326

Lab Sample # : 0I03105-03 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	9.5	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/3/20 00:00
Sample Location: Shallow CH4-044 7 Unk

Project Manager: Audrey Cooper

Sample ID: 829327

Lab Sample # : 0I03105-04 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	9.5	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/1/20 00:00
Sample Location: Deep CH4-098 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829329

Lab Sample # : 0I03105-05 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	2.6	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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Organic Certification - 4100

USEPA
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/1/20 00:00
Sample Location: Deep CH4-098 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829330

Lab Sample # : 0I03105-06 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	2.5	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/1/20 00:00
Sample Location: Shallow CH4-098 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829331

Lab Sample # : 0I03105-07 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.6	mg/L		2.0	0.08	09/22/20	09/22/20	B009841	JMB	SM 5310C 2011
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Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/1/20 00:00
Sample Location: Shallow CH4-098 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829332

Lab Sample # : 0I03105-08 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.7	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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Organic Certification - 4100

USEPA
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/2/20 00:00
Sample Location: Deep CH4-102 3 UNK

Project Manager: Audrey Cooper

Sample ID: 829334

Lab Sample # : 0I03105-09 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.7	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/2/20 00:00
Sample Location: Deep CH4-102 3 UNK

Project Manager: Audrey Cooper

Sample ID: 829335

Lab Sample # : 0I03105-10 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.7	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/2/20 00:00
Sample Location: Shallow CH4-102 3 UNK

Project Manager: Audrey Cooper

Sample ID: 829336

Lab Sample # : 0I03105-11 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	2.2	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/2/20 00:00
Sample Location: Shallow CH4-102 3 UNK

Project Manager: Audrey Cooper

Sample ID: 829337

Lab Sample # : 0I03105-12 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	26.3	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/4/20 00:00
Sample Location: Deep CH4-138 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829339

Lab Sample # : 0I03105-13 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	12.8	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/4/20 00:00
Sample Location: Deep CH4-138 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829340

Lab Sample # : 0I03105-14 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	12.6	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/4/20 00:00
Sample Location: Shallow CH4-138 11 UNK

Project Manager: Audrey Cooper

Sample ID: 829341

Lab Sample # : 0I03105-15 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	7.8	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/4/20 00:00
Sample Location: Shallow Dup CH4-138 11 DUP

Project Manager: Audrey Cooper

Sample ID: 829342

Lab Sample # : 0I03105-16 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	7.9	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/4/20 00:00
Sample Location: Blank CH4-138 11 BLK

Project Manager: Audrey Cooper

Sample ID: 829343

Lab Sample # : 0I03105-17 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	ND	mg/L		2.0	0.08	9/23/20	9/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/9/20 00:00
Sample Location: Deep CH4-191 13 Unk

Project Manager: Audrey Cooper

Sample ID: 829344

Lab Sample # : 0I03105-18 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	6.5	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/9/20 00:00
Sample Location: Deep CH4-191 13 Unk

Project Manager: Audrey Cooper

Sample ID: 829345

Lab Sample # : 0I03105-19 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	6.5	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/9/20 00:00
Sample Location: Shallow CH4-191 13 Unk

Project Manager: Audrey Cooper

Sample ID: 829346

Lab Sample # : 0I03105-20 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	6.5	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/9/20 00:00
Sample Location: Shallow Dup CH4-191 13 Dup

Project Manager: Audrey Cooper

Sample ID: 829347

Lab Sample # : 0I03105-21 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	6.5	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

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USEPA
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/9/20 00:00
Sample Location: Blank CH4-191 13 blk

Project Manager: Audrey Cooper

Sample ID: 829348

Lab Sample # : 0I03105-22 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	ND	mg/L		2.0	0.08	9/23/20	9/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/11/20 00:00
Sample Location: Deep CH4-208 1 UNK

Project Manager: Audrey Cooper

Sample ID: 829349

Lab Sample # : 0I03105-23 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	5.5	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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USEPA
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/11/20 00:00
Sample Location: Deep CH4-208 1 UNK

Project Manager: Audrey Cooper

Sample ID: 829350

Lab Sample # : 0I03105-24 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	5.6	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/11/20 00:00
Sample Location: Shallow CH4-208 1 UNK

Project Manager: Audrey Cooper

Sample ID: 829351

Lab Sample # : 0I03105-25 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	7.0	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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26 Martin Luther King Drive West
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Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/11/20 00:00
Sample Location: Shallow CH4-208 1 UNK

Project Manager: Audrey Cooper

Sample ID: 829352

Lab Sample # : 0I03105-26 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	7.0	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/12/20 00:00
Sample Location: Deep CH4-207 25 UNK

Project Manager: Audrey Cooper

Sample ID: 829354

Lab Sample # : 0I03105-27 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	4.4	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/12/20 00:00
Sample Location: Deep CH4-207 25 UNK

Project Manager: Audrey Cooper

Sample ID: 829355

Lab Sample # : 0I03105-28 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	4.4	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/12/20 00:00
Sample Location: Shallow CH4-207 25 UNK

Project Manager: Audrey Cooper

Sample ID: 829356

Lab Sample # : 0I03105-29 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.8	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877

Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Sampler Name: None Provided
Sampled Date/Time: 9/12/20 00:00
Sample Location: Shallow CH4-207 25 UNK

Project Manager: Audrey Cooper

Sample ID: 829357

Lab Sample # : 0I03105-30 (Non-Potable)

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date Prepared	Date Analyzed	Batch	Analyst	Method
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Wet Chemistry Analysis

Total organic carbon	3.8	mg/L		2.0	0.08	09/23/20	09/24/20	B009943	JMB	SM 5310C 2011
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CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877
Organic Certification - 4100

USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Quality Control

Wet Chemistry Analysis

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B009841										
Blank (B009841-BLK1) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	ND		1.0	mg/L						
Blank (B009841-BLK2) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	ND		1.0	mg/L						
LCS (B009841-BS1) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	9.7			mg/L	10.0		97	90-110		
LCS (B009841-BS2) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	9.4			mg/L	10.0		94	90-110		
Duplicate (B009841-DUP1) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	3.4		1.0	mg/L		3.4			0.2	10
Matrix Spike (B009841-MS1) - Prepared & Analyzed: 9/22/2020										
Total organic carbon	13.7		1.1	mg/L	11.1	3.4	92	90-110		
Batch: B009943										
Blank (B009943-BLK1) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	ND		1.0	mg/L						
Blank (B009943-BLK2) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	ND		1.0	mg/L						
Blank (B009943-BLK3) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	ND		1.0	mg/L						



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Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Quality Control (Continued)

Wet Chemistry Analysis (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B009943 (Continued)										
Blank (B009943-BLK4) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	ND		1.0	mg/L						
Blank (B009943-BLK5) - Prepared: 9/23/2020 Analyzed: 9/25/2020										
Total organic carbon	ND		1.0	mg/L						
Blank (B009943-BLK6) - Prepared: 9/23/2020 Analyzed: 9/25/2020										
Total organic carbon	ND		1.0	mg/L						
LCS (B009943-BS1) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
LCS (B009943-BS2) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
LCS (B009943-BS3) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
LCS (B009943-BS4) - Prepared: 9/23/2020 Analyzed: 9/24/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
LCS (B009943-BS5) - Prepared: 9/23/2020 Analyzed: 9/25/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
LCS (B009943-BS6) - Prepared: 9/23/2020 Analyzed: 9/25/2020										
Total organic carbon	9.6			mg/L	10.0		96	90-110		
Duplicate (B009943-DUP1) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0103230-02					
Total organic carbon	2.3		1.0	mg/L		2.3			0.7	10



CERTIFICATE of ANALYSIS

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Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Quality Control (Continued)

Wet Chemistry Analysis (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B009943 (Continued)										
Duplicate (B009943-DUP2) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03230-10					
Total organic carbon	1.0		1.0	mg/L		1.0			7	10
Duplicate (B009943-DUP3) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03105-21					
Total organic carbon	6.6		2.0	mg/L		6.5			0.6	10
Duplicate (B009943-DUP4) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03230-17					
Total organic carbon	2.3		1.0	mg/L		2.4			6	10
Matrix Spike (B009943-MS1) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03230-01					
Total organic carbon	12.2		1.1	mg/L	11.1	1.7	94	90-110		
Matrix Spike (B009943-MS2) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03230-09					
Total organic carbon	16.7		1.1	mg/L	11.1	5.9	97	90-110		
Matrix Spike (B009943-MS3) - Prepared: 9/23/2020 Analyzed: 9/24/2020					Source: 0I03105-22					
Total organic carbon	21.9		2.2	mg/L	22.2	0.8	95	90-110		
Matrix Spike (B009943-MS4) - Prepared: 9/23/2020 Analyzed: 9/25/2020					Source: 0I03230-16					
Total organic carbon	13.0		1.1	mg/L	11.1	2.4	96	90-110		



CERTIFICATE of ANALYSIS

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USEPA
Raghuraman Venkatapathy
26 Martin Luther King Drive West
Cincinnati, OHIO 45220

Client #: 6953
PO Number:
Date Received: 9/18/20 19:06
Reported: 9/28/20 13:52

Notes and Definitions

Item	Definition
mg/kg Dry	Sample results reported on a dry weight basis
ug/L	ppb/Part per Billion
mg/L	ppm/Part per Million
ND	Analyte NOT DETECTED at or above the Reporting Limit
!	Analyte is at or above the Maximum Contaminate Level.

Notes:

1. Calculated analytes are based on raw data and may not reflect the rounding of the individual compounds.
2. Samples are analyzed using the information received on the request sheet and may not be analyzed when the parameters fall outside required guidelines.

SuRGE

OI03105-01-04

Sample Matrix: Non-Potable**PO#:****Client Number: 6953****Client Name: USEPA**

Container Preservative	(4) 40ML Vials H3PO4
# Containers	4
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829324	Deep	CH4-044	7	Unk	9/3/20	1 vial
829325	Deep	CH4-044	7	Unk	9/3/20	1 vial
829326	Shallow	CH4-044	7	Unk	9/3/20	1 vial
829327	Shallow	CH4-044	7	Unk	9/3/20	1 vial
829328						

*unknown = unk, duplicate = dup, blank = blk

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuilfsDate/Time: 9/18/20 9:55 am

Received by: _____

Date/Time: _____

Received by MASI: [Signature]Date/Time: 9/18/20 9:55 am@W
8.1.20
LD

SuRGE

0103105-05/08

Sample Matrix: Non-Potable

PO#:

Client Number: 6953

Client Name: USEPA

Container Preservative	(4) 40ML Vials H3PO4
# Containers	4
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829329	Deep	CH4-098	11	UNK	9/1/20	VIAL
829330	Deep	CH4-098	11	UNK	9/1/20	VIAL
829331	Shallow	CH4-098	11	UNK	9/1/20	VIAL
829332	Shallow	CH4-098	11	UNK	9/1/20	VIAL
829333						

*unknown = unk, duplicate = dup, blank = blk

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuifsDate/Time: 9/18/20 9:55am

Received by: _____

Date/Time: _____

Received by MASI: [Signature]Date/Time: 9/18/20 9:55amOW
8.1
FD

SuRGE

0103105-09/012

Sample Matrix: Non-Potable**PO#:****Client Number: 6953****Client Name: USEPA**

Container Preservative	(4) 40ML Vials H3PO4
# Containers	4
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829334	Deep	CH4-102	3	UNK	9/2/20	1 vial
829335	Deep	CH4-102	3	UNK	9/2/20	1 vial
829336	Shallow	CH4-102	3	UNK	9/2/20	1 vial
829337	Shallow	CH4-102	3	UNK	9/2/20	1 vial
829338						

*unknown = unk, duplicate = dup, blank = blk

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuifsDate/Time: 9/18/20 9:55am

Received by:

Date/Time:

Received by MASI: Cam SDate/Time: 9/18/20 9:55am

@W
8.1
FD

SuRGE

OI03105-13/17

Sample Matrix: Non-Potable

PO#:

Client Number: 6953

Client Name: USEPA

Container Preservative	(8) 40ML Vials H3PO4
# Containers	8
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829339	Deep	CH4-138	11	UNK	9/4/20	1 Vial
829340	Deep	CH4-138	11	UNK	9/4/20	1 Vial
829341	Shallow	CH4-138	11	UNK	9/4/20	2 Vials
829342	Shallow Dup	CH4-138	11	DUP	9/4/20	2 Vials
829343	Blank	CH4-138	11	BLK	9/4/20	2 Vials
*unknown = unk, duplicate = dup, blank = blk						

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuilfsDate/Time: 9/18/20 9:55 am

Received by: _____

Date/Time: _____

Received by MASI: Qan SDate/Time: 9/18/20 9:55 am

QW
8.1°C
FD

SuRGE

OI03105-18/22

Sample Matrix: Non-Potable

PO#:

Client Number: 6953

Client Name: USEPA

Container Preservative	(8) 40ML Vials H3PO4
# Containers	8
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829344	Deep	CH4-191	13	Unk	9/9/20	1 VIAL
829345	Deep	CH4-191	13	Unk	9/9/20	1 VIAL
829346	Shallow	CH4-191	13	Unk	9/9/20	2 VIALS
829347	Shallow Dup	CH4-191	13	Dup	9/9/20	2 VIALS
829348	Blank	CH4-191	13	blk	9/9/20	2 VIALS
*unknown = unk, duplicate = dup, blank = blk						

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuilfsDate/Time: 9/18/20 9:55am

Received by: _____

Date/Time: _____

Received by MASI: [Signature]Date/Time: 9/18/20 9:55am

@w
8.1.c
FD

SuRGE

OI03105-23/26

Sample Matrix: Non-Potable

PO#:

Client Number: 6953

Client Name: USEPA

Container Preservative	(4) 40ML Vials H3PO4
# Containers	4
Tests to Include:	TOC **Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829349	Deep	CH4-208	1	UNK	9/11/20	1 VIAL
829350	Deep	CH4-208	1	UNK	9/11/20	1 VIAL
829351	Shallow	CH4-208	1	UNK	9/11/20	1 VIAL
829352	Shallow	CH4-208	1	UNK	9/11/20	1 VIAL
829353						

*unknown = unk, duplicate = dup, blank = blk

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuifDate/Time: 9/18/20 9:55 am

Received by: _____

Date/Time: _____

Received by MASI: [Signature]Date/Time: 9/18/20 9:55 am

@W
8.1.2
FD

SuRGE

OI03105-27-30

Sample Matrix: Non-Potable**PO#:****Client Number: 6953****Client Name: USEPA**

Container Preservative	(4) 40ML Vials H3PO4
# Containers	4
Tests to Include:	TOC
**Client may also submit their own containers: 40ml glass vials, w/2 drops of 50% H2SO4	

Sample #	Sampler's Name	LakeID	SiteID	*Sample Type	Collection Date	LIMS (Office Use)
829354	Deep	CH4-207	25	UNK	9/12/20	1 VIAL
829355	Deep	CH4-207	25	UNK	9/12/20	1 VIAL
829356	Shallow	CH4-207	25	UNK	9/12/20	1 VIAL
829357	Shallow	CH4-207	25	UNK	9/12/20	1 VIAL
829358						

*unknown = unk, duplicate = dup, blank = blk

On-Site Sample Event Information: Unfiltered water samples collected from two depths within a lake. Field blanks consist of deionized water added directly to TOC vial in the field.

Chain of CustodyRelinquished by: Leah JuifDate/Time: 9/18/20 9:55 am

Received by:

Date/Time:

Received by MASI: Con SDate/Time: 9/18/20 9:55 am@W
8.1.1c
FD