

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ian St. John
St. John Environmental Consulting
5515 Grace Ave.
Saint Louis, Missouri 63116

Generated 2/5/2024 1:18:31 AM

JOB DESCRIPTION

Grandview RII School District - Elementary

JOB NUMBER

810-91956-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
2/5/2024 1:18:31 AM

Authorized for release by
Pamela Brown, Project Manager
Pamela.Brown@et.eurofinsus.com
(574)233-4777



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
π	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Case Narrative

Client: St. John Environmental Consulting
Project: Grandview RII School District - Elementary

Job ID: 810-91956-1

Job ID: 810-91956-1

Eurofins Eaton Analytical South Bend

Job Narrative
810-91956-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

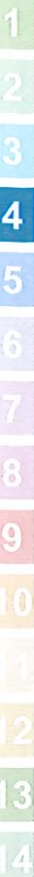
Receipt Exceptions

No sample date/time on containers. Samples logged according to COC.

GE-9 Sink (810-91956-1) and GE-14 Potfiller (810-91956-2)

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Client Sample ID: GE-9 Sink

Lab Sample ID: 810-91956-1

No Detections.

Client Sample ID: GE-14 Potfiller

Lab Sample ID: 810-91956-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lead	2.1		0.50		ug/L		1		200.8	Total/NA



This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Client Sample ID: GE-9 Sink

Lab Sample ID: 810-91956-1

Date Collected: 01/29/24 08:30

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/02/24 13:23	1

Client Sample ID: GE-14 Potfiller

Lab Sample ID: 810-91956-2

Date Collected: 01/25/24 08:30

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.1		0.50		ug/L			02/02/24 13:21	1



QC Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-87581/11							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac	
Lead	<0.50		0.50		ug/L			02/02/24 09:16	1	
Lab Sample ID: MB 810-87581/161							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac	
Lead	<0.50		0.50		ug/L			02/02/24 13:07	1	
Lab Sample ID: LCS 810-87581/162							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	50.0	51.6		ug/L		103	85 - 115			
Lab Sample ID: LLCS 810-87581/10							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	0.300	0.313	J	ug/L		104	50 - 150			



QC Association Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Metals

Analysis Batch: 87581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91956-1	GE-9 Sink	Total/NA	Drinking Water	200.8	
810-91956-2	GE-14 Potfiller	Total/NA	Drinking Water	200.8	
MB 810-87581/11	Method Blank	Total/NA	Drinking Water	200.8	
MB 810-87581/161	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-87581/162	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-87581/10	Lab Control Sample	Total/NA	Drinking Water	200.8	



Lab Chronicle

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Client Sample ID: GE-9 Sink

Date Collected: 01/29/24 08:30
Date Received: 01/30/24 09:00

Lab Sample ID: 810-91956-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87581	CA	EA SB	02/02/24 13:23

Client Sample ID: GE-14 Potfiller

Date Collected: 01/25/24 08:30
Date Received: 01/30/24 09:00

Lab Sample ID: 810-91956-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87581	CA	EA SB	02/02/24 13:21

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Elementary

Job ID: 810-91956-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Login Sample Receipt Checklist

Client: St. John Environmental Consulting

Job Number: 810-91956-1

Login Number: 91956

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



810-91956 Chain of Custody

Send

Chain of Custody Record



Environment Testing America

2nd Down

Sampler: Ian St. John		Lab PM:		Carrier Tracking No(s):		COC No:	
Phone: 314-853-4668		E-Mail: ian@stjohnenv.com		State of Origin:		Page: 1 of 1	
Company: Doug Shropshire		PWSID:		Analysis Requested			
Address: Grandview RII School District		Due Date Requested:		Total Number of Containers			
City: Hillsboro		TAT Requested (days): Standard		Preservation Codes:			
State, Zip: Missouri		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A - HCL N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCA W - pH 4-5 Y - Trizma Z - other (specify)			
Phone: 636-944-3941		PO #:		Other:			
Email: shropshire@grandview2.org		WO #:					
Project Name: Grandview School District		Project #:					
Site: <i>Elementary</i>		SSOW#:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
<i>GE-9 Sink</i>		<i>1/29/24</i>		<i>8:30</i>		<i>G W</i>	
<i>GE-14 Pot Filler</i>		<i>1/25/24</i>		<i>↓</i>		<i>G W</i>	
Field Filtered Sample (Yes or No)		Matrix (W=water, G=grab, O=other, S=soil, T=triazma, A=air)		Special Instructions/Note:			
<input checked="" type="checkbox"/>		<i>Pb in Drinking Water</i>		<i>PHLA pipet</i>			
Possible Hazard Identification		Sample Date		Sample Time		Sample Type	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date		Time		Method of Shipment:	
Deliverable Requested: I, II, III, IV, Other (specify) <i>No detect time on bottles per 1/30/24</i>		Date/Time: 1/29/24		Company		Received by: <i>Penny Pelting-Walsh 01/30/24</i>	
Empty Kit Relinquished by:		Date/Time:		Company		Received by:	
Relinquished by: Ian St. John		Date/Time:		Company		Received by:	
Relinquished by:		Date/Time:		Company		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>Ambient</i>			

Sample Summary

Job ID: 810-91956-1

Client: St. John Environmental Consulting
 Project/Site: Grandview Rll School District - Elementary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-91956-1	GE-9 Sink	Drinking Water	01/29/24 08:30	01/30/24 09:00
810-91956-2	GE-14 Potfiller	Drinking Water	01/25/24 08:30	01/30/24 09:00



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ian St. John
St. John Environmental Consulting
5515 Grace Ave.
Saint Louis, Missouri 63116

Generated 2/9/2024 1:18:16 AM

JOB DESCRIPTION

Grandview RII School District - Middle School

JOB NUMBER

810-92091-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
2/9/2024 1:18:16 AM

Authorized for release by
Pamela Brown, Project Manager
Pamela.Brown@et.eurofinsus.com
(574)233-4777



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

Definitions/Glossary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: St. John Environmental Consulting
Project: Grandview RII School District - Middle School

Job ID: 810-92091-1

Job ID: 810-92091-1

Eurofins Eaton Analytical South Bend

Job Narrative
810-92091-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Client Sample ID: GMS-11 ICE **Lab Sample ID: 810-92091-1**

No Detections.

Client Sample ID: GMS-13 Sink **Lab Sample ID: 810-92091-2**

No Detections.

Client Sample ID: GMS-14 Sink **Lab Sample ID: 810-92091-3**

No Detections.

Client Sample ID: GMS-15 Sink **Lab Sample ID: 810-92091-4**

No Detections.

Client Sample ID: GMS-16 ICE **Lab Sample ID: 810-92091-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lead	1.8		0.50		ug/L	1			200.8	Total Recoverable

Client Sample ID: GMS-17 Sink **Lab Sample ID: 810-92091-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lead	1.4		0.50		ug/L	1			200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Client Sample ID: GMS-11 ICE

Lab Sample ID: 810-92091-1

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/05/24 10:25	1

Client Sample ID: GMS-13 Sink

Lab Sample ID: 810-92091-2

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/05/24 10:27	1

Client Sample ID: GMS-14 Sink

Lab Sample ID: 810-92091-3

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/05/24 10:32	1

Client Sample ID: GMS-15 Sink

Lab Sample ID: 810-92091-4

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/05/24 10:33	1

Client Sample ID: GMS-16 ICE

Lab Sample ID: 810-92091-5

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8		0.50		ug/L		02/07/24 11:55	02/08/24 14:24	1

Client Sample ID: GMS-17 Sink

Lab Sample ID: 810-92091-6

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.4		0.50		ug/L			02/05/24 10:35	1

QC Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-87664/11							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87664										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L			02/05/24 07:14	1	

Lab Sample ID: MB 810-87664/132							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87664										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L			02/05/24 10:21	1	

Lab Sample ID: LCS 810-87664/133							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87664										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	50.0	50.8		ug/L		102	85 - 115			

Lab Sample ID: LLCS 810-87664/10							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87664										
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	0.300	0.310	J	ug/L		103	50 - 150			

Lab Sample ID: 810-92091-2 MS							Client Sample ID: GMS-13 Sink			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87664										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Lead	<0.50		50.0	51.0		ug/L		101	70 - 130	

Lab Sample ID: 810-92091-2 MSD							Client Sample ID: GMS-13 Sink				
Matrix: Drinking Water							Prep Type: Total/NA				
Analysis Batch: 87664											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	<0.50		50.0	50.5		ug/L		100	70 - 130	1	20

Lab Sample ID: MB 810-87923/1-A							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total Recoverable			
Analysis Batch: 88075							Prep Batch: 87923			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L		02/07/24 11:55	02/08/24 13:46	1	

Lab Sample ID: LCS 810-87923/6-A							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total Recoverable			
Analysis Batch: 88075							Prep Batch: 87923			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	50.0	53.1		ug/L		106	85 - 115			

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LLCS 810-87923/2-A
 Matrix: Drinking Water
 Analysis Batch: 88075

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 87923

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.300	0.312	J	ug/L		104	50 - 150

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Metals

Analysis Batch: 87664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92091-1	GMS-11 ICE	Total/NA	Drinking Water	200.8	
810-92091-2	GMS-13 Sink	Total/NA	Drinking Water	200.8	
810-92091-3	GMS-14 Sink	Total/NA	Drinking Water	200.8	
810-92091-4	GMS-15 Sink	Total/NA	Drinking Water	200.8	
810-92091-6	GMS-17 Sink	Total/NA	Drinking Water	200.8	
MB 810-87664/11	Method Blank	Total/NA	Drinking Water	200.8	
MB 810-87664/132	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-87664/133	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-87664/10	Lab Control Sample	Total/NA	Drinking Water	200.8	
810-92091-2 MS	GMS-13 Sink	Total/NA	Drinking Water	200.8	
810-92091-2 MSD	GMS-13 Sink	Total/NA	Drinking Water	200.8	

Prep Batch: 87923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92091-5	GMS-16 ICE	Total Recoverable	Drinking Water	200.8	
MB 810-87923/1-A	Method Blank	Total Recoverable	Drinking Water	200.8	
LCS 810-87923/6-A	Lab Control Sample	Total Recoverable	Drinking Water	200.8	
LLCS 810-87923/2-A	Lab Control Sample	Total Recoverable	Drinking Water	200.8	

Analysis Batch: 88075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92091-5	GMS-16 ICE	Total Recoverable	Drinking Water	200.8	87923
MB 810-87923/1-A	Method Blank	Total Recoverable	Drinking Water	200.8	87923
LCS 810-87923/6-A	Lab Control Sample	Total Recoverable	Drinking Water	200.8	87923
LLCS 810-87923/2-A	Lab Control Sample	Total Recoverable	Drinking Water	200.8	87923



Lab Chronicle

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Client Sample ID: GMS-11 ICE

Lab Sample ID: 810-92091-1

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 10:25

Client Sample ID: GMS-13 Sink

Lab Sample ID: 810-92091-2

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 10:27

Client Sample ID: GMS-14 Sink

Lab Sample ID: 810-92091-3

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 10:32

Client Sample ID: GMS-15 Sink

Lab Sample ID: 810-92091-4

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 10:33

Client Sample ID: GMS-16 ICE

Lab Sample ID: 810-92091-5

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8			87923	NB	EA SB	02/07/24 11:55
Total Recoverable	Analysis	200.8		1	88075	NB	EA SB	02/08/24 14:24

Client Sample ID: GMS-17 Sink

Lab Sample ID: 810-92091-6

Date Collected: 01/29/24 10:35

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 10:35

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-24



Method Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB
200.8	Preparation, Total Recoverable Metals	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Middle School

Job ID: 810-92091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-92091-1	GMS-11 ICE	Drinking Water	01/29/24 10:35	01/30/24 09:00
810-92091-2	GMS-13 Sink	Drinking Water	01/29/24 10:35	01/30/24 09:00
810-92091-3	GMS-14 Sink	Drinking Water	01/29/24 10:35	01/30/24 09:00
810-92091-4	GMS-15 Sink	Drinking Water	01/29/24 10:35	01/30/24 09:00
810-92091-5	GMS-16 ICE	Drinking Water	01/29/24 10:35	01/30/24 09:00
810-92091-6	GMS-17 Sink	Drinking Water	01/29/24 10:35	01/30/24 09:00





Chain of Custody Record

Eurofins Eaton Analytical: South Bend
 110 South Hill Street
 South Bend, IN 46617
 Phone (574) 233-4777

Client Information		Sampler: Ian St. John		Lab PIN:		Carrier Tracking No(s):		COC No:	
Client Contact: Doug Shropshire		Phone: 314-853-4668		E-Mail: ian@stjohnenv.com		State of Origin:		Page: Page 1 of 1	
Company: Grandview RII School District		Due Date Requested:		PWSID:		Analysis Requested		Job #:	
Address: 11470 Highway C		TAT Requested (days): Standard		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Barcode		Preservation Codes:	
City: Hillisboro		PO #:		WO #:		810-92091 Chain of Custody		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: Missouri		Project #:		SSOW#: Middle School		Pb in Drinking Water		M - Hexane N - None O - AsNO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Phone: 636-944-3941		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=method, AT=Atmos, AW=)	
Email: shropshire@grandview2.org		1/29/24		10:35		G W		Special Instructions/Note:	
Project Name: Grandview School District		Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Site: Middle School		X		X		X			
Sample Identification		GMS-11 ICE		↓		↓			
GMS-13 SWK		↓		↓		↓			
GMS-14 SWK		↓		↓		↓			
GMS-15 SWK		↓		↓		↓			
GMS-16 ICE		↓		↓		↓			
GMS-17 SWK		↓		↓		↓			
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
Deliverable Requested: I, II, III, IV, Other (specify)		<input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: Ian St. John		Date/Time: 1/29/24		Company		Received by: <i>Shropshire</i>		Date/Time: 1-30-24 9:00	
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: St. John Environmental Consulting

Job Number: 810-92091-1

Login Number: 92091

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ian St. John
St. John Environmental Consulting
5515 Grace Ave.
Saint Louis, Missouri 63116

Generated 2/5/2024 1:18:32 AM

JOB DESCRIPTION

Hillsboro RIII School District - ~~Elementary~~
HS

JOB NUMBER

810-92072-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
2/5/2024 1:18:32 AM

Authorized for release by
Pamela Brown, Project Manager
Pamela.Brown@et.eurofinsus.com
(574)233-4777

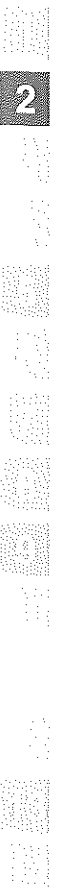


Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: St. John Environmental Consulting
 Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Case Narrative

Client: St. John Environmental Consulting
Project: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Job ID: 810-92072-1

Eurofins Eaton Analytical South Bend

**Job Narrative
810-92072-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Client Sample ID: GHS-11 Sink

Lab Sample ID: 810-92072-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.2		0.50		ug/L	1		200.8	Total/NA

Client Sample ID: GHS-12 Sink

Lab Sample ID: 810-92072-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.64		0.50		ug/L	1		200.8	Total/NA



This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Client Sample ID: GHS-11 Sink

Lab Sample ID: 810-92072-1

Date Collected: 01/29/24 09:45

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.50		ug/L			02/02/24 10:53	1

Client Sample ID: GHS-12 Sink

Lab Sample ID: 810-92072-2

Date Collected: 01/29/24 09:45

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.64		0.50		ug/L			02/02/24 10:55	1

QC Sample Results

Client: St. John Environmental Consulting
 Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-87581/11							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L			02/02/24 09:16	1	
Lab Sample ID: MB 810-87581/41							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L			02/02/24 10:03	1	
Lab Sample ID: MB 810-87581/71							Client Sample ID: Method Blank			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	<0.50		0.50		ug/L			02/02/24 10:49	1	
Lab Sample ID: LCS 810-87581/42							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	50.0	51.4		ug/L		103	85 - 115			
Lab Sample ID: LCS 810-87581/72							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	50.0	51.5		ug/L		103	85 - 115			
Lab Sample ID: LLCS 810-87581/10							Client Sample ID: Lab Control Sample			
Matrix: Drinking Water							Prep Type: Total/NA			
Analysis Batch: 87581										
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits			
Lead	0.300	0.313	J	ug/L		104	50 - 150			

QC Association Summary

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Metals

Analysis Batch: 87581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92072-1	GHS-11 Sink	Total/NA	Drinking Water	200.8	
810-92072-2	GHS-12 Sink	Total/NA	Drinking Water	200.8	
MB 810-87581/11	Method Blank	Total/NA	Drinking Water	200.8	
MB 810-87581/41	Method Blank	Total/NA	Drinking Water	200.8	
MB 810-87581/71	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-87581/42	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCS 810-87581/72	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-87581/10	Lab Control Sample	Total/NA	Drinking Water	200.8	



Lab Chronicle

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Client Sample ID: GHS-11 Sink

Date Collected: 01/29/24 09:45

Date Received: 01/30/24 09:00

Lab Sample ID: 810-92072-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87581	CA	EA SB	02/02/24 10:53

Client Sample ID: GHS-12 Sink

Date Collected: 01/29/24 09:45

Date Received: 01/30/24 09:00

Lab Sample ID: 810-92072-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87581	CA	EA SB	02/02/24 10:55

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777




Chain of Custody Record



Environment Testing
America

2nd Draw
7/25

Client Information		Sampler: Ian St. John	Lab PM:		
Client Contact: Doug Shropshire		Phone: 314-853-4668	Carrier Tracking No(s):		
Company: Grandview RII School District		E-Mail: ian@stjohnenv.com	State of Origin:		
Address: 11470 Highway C		Analysis Requested			
City: Hillsboro		 810-92072 Chain of Custody			
State, Zip: Missouri		Total Number of Containers			
Phone: 636-944-3941		Perform MS/MSD (Yes or No)			
Email: shropshire@grandview2.org		Field Filtered Sample (Yes or No)			
Project Name: Grandview School District		Special Instructions/Note:			
Site: High School					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Water, Solid, Composite, AT=Titania, AA=As)
GHS-11 Sink	1/29/24	9:45	G	W	
GHS-12 Sink	1/29/24	↓	G	W	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: Ian St. John		Date: 1/29/24		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:	



Sample Summary

Client: St. John Environmental Consulting
Project/Site: Hillsboro RIII School District - Elementary

Job ID: 810-92072-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-92072-1	GHS-11 Sink	Drinking Water	01/29/24 09:45	01/30/24 09:00
810-92072-2	GHS-12 Sink	Drinking Water	01/29/24 09:45	01/30/24 09:00



Login Sample Receipt Checklist

Client: St. John Environmental Consulting

Job Number: 810-92072-1

Login Number: 92072

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Alfred, Robbin

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ian St. John
St. John Environmental Consulting
5515 Grace Ave.
Saint Louis, Missouri 63116

Generated 2/5/2024 11:28:08 PM

JOB DESCRIPTION

Grandview RII School District - Concessions

JOB NUMBER

810-91958-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Generated
2/5/2024 11:28:08 PM

Authorized for release by
Pamela Brown, Project Manager
Pamela.Brown@et.eurofinsus.com
(574)233-4777



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Case Narrative

Client: St. John Environmental Consulting
Project: Grandview RII School District - Concessions

Job ID: 810-91958-1

Job ID: 810-91958-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-91958-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

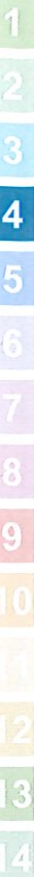
Receipt Exceptions

No sample date/time on containers. Samples logged according to COC.
GCB-1 Hydrant (810-91958-1), GCB-2 Hydrant (810-91958-2) and GCB-3 Hydrant (810-91958-3)

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical South Bend



Detection Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Client Sample ID: GCB-1 Hydrant

Lab Sample ID: 810-91958-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.5		0.50		ug/L	1		200.8	Total/NA

Client Sample ID: GCB-2 Hydrant

Lab Sample ID: 810-91958-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.6		0.50		ug/L	1		200.8	Total/NA

Client Sample ID: GCB-3 Hydrant

Lab Sample ID: 810-91958-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.5		0.50		ug/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend



Client Sample Results

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Client Sample ID: GCB-1 Hydrant

Lab Sample ID: 810-91958-1

Date Collected: 01/29/24 10:10

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.5		0.50		ug/L			02/05/24 07:22	1

Client Sample ID: GCB-2 Hydrant

Lab Sample ID: 810-91958-2

Date Collected: 01/29/24 10:10

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.6		0.50		ug/L			02/05/24 07:24	1

Client Sample ID: GCB-3 Hydrant

Lab Sample ID: 810-91958-3

Date Collected: 01/29/24 10:10

Matrix: Drinking Water

Date Received: 01/30/24 09:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.5		0.50		ug/L			02/05/24 07:25	1

QC Sample Results

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-87664/11			Client Sample ID: Method Blank						
Matrix: Drinking Water			Prep Type: Total/NA						
Analysis Batch: 87664									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		ug/L			02/05/24 07:14	1

Lab Sample ID: LCS 810-87664/12			Client Sample ID: Lab Control Sample						
Matrix: Drinking Water			Prep Type: Total/NA						
Analysis Batch: 87664									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead	50.0	53.3		ug/L		107	85 - 115		

Lab Sample ID: LLCS 810-87664/10			Client Sample ID: Lab Control Sample						
Matrix: Drinking Water			Prep Type: Total/NA						
Analysis Batch: 87664									
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead	0.300	0.310	J	ug/L		103	50 - 150		

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Metals

Analysis Batch: 87664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91958-1	GCB-1 Hydrant	Total/NA	Drinking Water	200.8	
810-91958-2	GCB-2 Hydrant	Total/NA	Drinking Water	200.8	
810-91958-3	GCB-3 Hydrant	Total/NA	Drinking Water	200.8	
MB 810-87664/11	Method Blank	Total/NA	Drinking Water	200.8	
LCS 810-87664/12	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 810-87664/10	Lab Control Sample	Total/NA	Drinking Water	200.8	



Lab Chronicle

Client: St. John Environmental Consulting
 Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Client Sample ID: GCB-1 Hydrant

Date Collected: 01/29/24 10:10

Date Received: 01/30/24 09:00

Lab Sample ID: 810-91958-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 07:22

Client Sample ID: GCB-2 Hydrant

Date Collected: 01/29/24 10:10

Date Received: 01/30/24 09:00

Lab Sample ID: 810-91958-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 07:24

Client Sample ID: GCB-3 Hydrant

Date Collected: 01/29/24 10:10

Date Received: 01/30/24 09:00

Lab Sample ID: 810-91958-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	87664	NB	EA SB	02/05/24 07:25

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

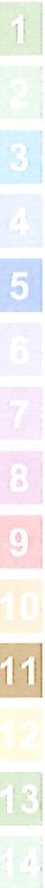
Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: St. John Environmental Consulting
Project/Site: Grandview RII School District - Concessions

Job ID: 810-91958-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-91958-1	GCB-1 Hydrant	Drinking Water	01/29/24 10:10	01/30/24 09:00
810-91958-2	GCB-2 Hydrant	Drinking Water	01/29/24 10:10	01/30/24 09:00
810-91958-3	GCB-3 Hydrant	Drinking Water	01/29/24 10:10	01/30/24 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record



1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client: Doug Shropshire

Sampler: Ian St. John

Lab P.M.:

Carrier Tracking No(s):

COC No:

Company: Grandview RII School District

Phone: 314-853-4668

E-Mail: ian@stjohnenv.com

State of Origin:

Page: Page 1 of 1

Address: 11470 Highway C

Due Date Requested:

Analysis Requested

City: Hillsboro

TAT Requested (days): Standard

State, Zip: Missouri

Compliance Project: Yes No

Phone: 636-944-3941

PO #:

Email: shropshire@grandviewr2.org

W/O #:

Project Name: Grandview School District

Project #:

Site: Can Cessans

SSOW#:

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (In-water, Swab, Over-sat, etc.)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Special Instructions/Note:

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered	MS/MSD	Special Instructions/Note
GGB-1	1/29/24	Field	G	W	X	X	Pb in Drinking Water
GGB-2	11	"	"	"	"	"	"
GGB-3	11	"	"	"	"	"	"

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Dispose By Lab Archive For _____ Months

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by: Ian St. John

Date/Time: 1/29/24

Company:

Received by:

Date/Time: 01/30/24 09:00

Company: EDA

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

ambient

Login Sample Receipt Checklist

Client: St. John Environmental Consulting

Job Number: 810-91958-1

Login Number: 91958

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

