

May 27, 2016

File: 0063.03936.0

Mr. Brian Finos
Manager of Facilities
Charter Development Company
3850 Broadmoor SE, Suite 201
Grand Rapids, Michigan 49512

Re: Environmental Assessment – Drinking Water Quality Report
Detroit Premier Charter Academy
7781 Asbury Park, Detroit, Michigan

Dear Mr. Finos:

Rose & Westra, Inc. (R&W) is pleased to present this drinking water quality report with results from the recent sampling and testing for the Detroit Premier Charter Academy located at 7781 Asbury Park, Detroit, Michigan (the Building). This work was requested due a concern about possible lead contaminates being present in the drinking water supplied to the Building. The water piping system to the Building and the water within the system are maintained by City of Detroit Water Department.

In summary, none of the tests conducted identified any contaminants exceeding the maximum contaminant levels (MCLs) or the Secondary MCLs allowed by the U. S. Environmental Protection Agency (U.S. EPA) for residential drinking water consumption.

Background

The Building is a multi-story structure constructed in several phases with the original Building constructed was completed in the 1940s and 1960s. Renovations and additions were completed in 2006 using new building materials. The City of Detroit Water Department maintains the water distribution system and provides the water within the piping system to the Building.

Drinking Water Sampling

On May 22, 2016, R&W staff collected water samples from eight water fixtures in the Building. The fixtures sampled consist of a drinking water fountain station (DFS) located across the hallway from Classroom 100 (sampled the older ceramic model [DFS-100], DFS located next to Classroom 103 (sampled the older ceramic model) [DFS-103], DFS next to Classroom 113 [DFS-113], DFS next to Classroom 201A [DFS-201A], DFS next to Classroom 213 [DFS-213], sink tap in the food prep room (Room 125) [FP-125], sink tap in the Teacher's Lounge (Room 132) [TL-132], and sink tap in Classroom 213 [CS-213].

The locations have been illustrated on Figures 1 and 2 (Attachment 1). The sampling method used for the drinking water sample collection is known as first draw sampling, with a second sample collected from each location following a flush of the fixture. The first draw method required R&W staff to access the sampling location and flush the fixture to be sampled for a 30-minute period. Flushing the sampling locations was completed at 7:08 pm on May 21, 2016. Once the 30-minute flushing period was completed, R&W allowed each sample location to rest for a minimum of 6 hours. Each sample location was taped off to prevent use. The first draw water sample collection began at 10:24 am on May 22, 2016; thereby allowing for a nearly 15-hour rest period. Once the first draw sample was collected from the sample locations, the fixtures remained on for a 5-minute flush before the flushed sample was collected.

The first draw sample from each sample location has been identified in the sample name. The first draw samples are identified as DFS-100-FD, DFS-103-FD, DFS-113-FD, DFS-201A-FD, DFS-213-FD, FP-125-FD, TL-132-FD, and CS-213-FD. These water sample locations have been illustrated on Figures 1 and 2, Attachment 1.

The flushed sample from each sample location has also been identified in the sample name. The flushed samples are identified as DFS-100-FL, DFS-103-FL, DFS-113-FL, DFS-201A-FL, DFS-213-FL, FP-125-FL, TL-132-FL, and CS-213-FL. These water sample locations have been illustrated on Figures 1 and 2, Attachment 1.

Analytical Testing

Water samples collected by R&W on May 22, 2016 were placed in clean 1,000-ml sample containers (supplied by the lab), labeled, cooled, and stored for transportation. The samples were handled and transported to Prein & Newhof Environmental Laboratory, Inc. (Prein & Newhof Laboratory; Grand Rapids, Michigan) under chain-of-custody records using U.S. EPA and Michigan Department of Environmental Quality (MDEQ) recommended methods. The water samples were tested for several heavy metals (copper, iron, and lead). A copy of the laboratory report has been included in Attachment 2. The Prein & Newhof Laboratory has MDEQ Drinking Water Certification for testing water samples.

Evaluation of Testing Results

All of the lead results were reported as below the method detection limit (MDL) of <0.003 mg/L. These reported results are also below the MCL of 0.015 mg/L.

Trace copper levels were reported in most water samples collected. The reported copper concentrations ranged from <0.010 mg/l to 0.435 mg/L; however, all reported concentrations are well below the MCL of 1.300 mg/L.

Mr. Brian Finos
May 27, 2016
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Trace iron levels were reported in all water samples collected. The reported iron concentrations ranged from 0.020 mg/L to 0.087 mg/L. The Secondary MCL for iron has been established at 0.300 mg/L for taste and color. All reported sample results were below the Secondary MCL for iron.

Conclusions

Based on the water sampling and chemical analyses conducted, none of the tests conducted identified any contaminants that exceeded the MCLs or Secondary MCLs allowed by the U. S. EPA for residential drinking water consumption.

If you have any questions regarding the information or data presented in this letter, please feel free to contact our staff.

Sincerely,

ROSE & WESTRA, INC.



William J. Bosze, P.E.

wjb/jac

Attachments:

Attachment 1: Figure 1 – First Floor Plan – Sample Locations – May 22, 2016
Figure 2 – Second Floor Plan – Sample Locations – May 22, 2016

Attachment 2: Prein & Newhof Laboratory Report

Sent via Email Only

ATTACHMENT 1

FIGURES 1 AND 2

DRINKING WATER SAMPLE LOCATIONS – MAY 22, 2016

NEW CONSTRUCTION
2006

EXISTING
BUILDING

DFS-113-FD
DFS-113-FL

TL-132-FD
TL-132-FL

FP-125-FD
FP-125-FL

DFS-100-FD
DFS-100-FL

DFS-103-FD
DFS-103-FL



LEGEND

= WATER SAMPLE LOCATION

FIRST FLOOR PLAN - SAMPLE LOCATIONS 5/22/16



 **ROSE & WESTRA, INC.**
ENVIRONMENTAL CONSULTANTS
Grand Rapids, Michigan

NATIONAL HERITAGE ACADEMIES
DETROIT PREMIER ACADEMY
7781 ASBURY PARK, DETROIT, MICHIGAN
DRINKING WATER TESTING

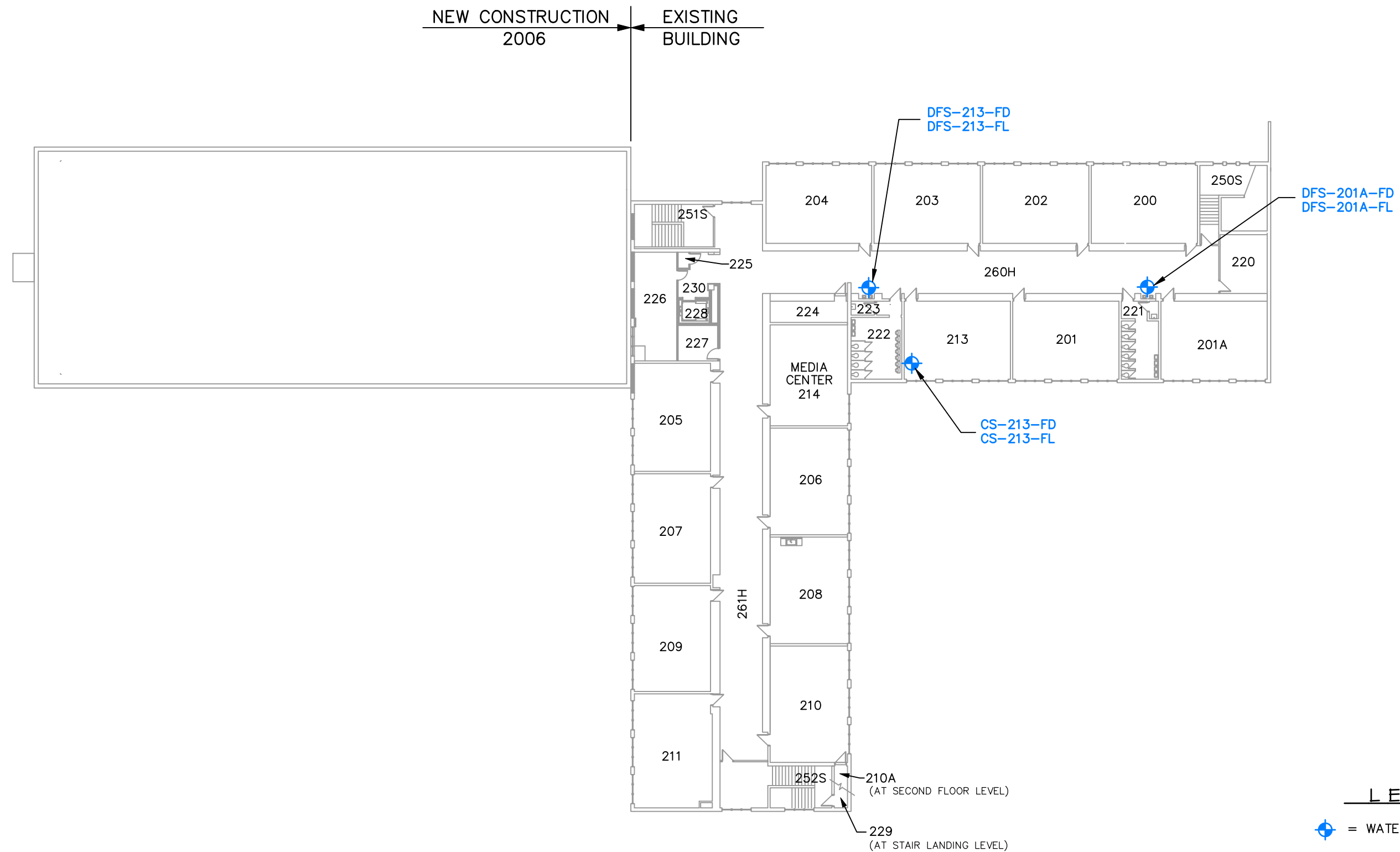
PROJECT NO.
0063.03936.0

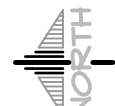


1

FIGURE NO.

SCALE: 1" = 30'
0' 30'

CREATED BY: KJB APPROVED BY: WJB DATE: 5/25/16 FILE NAME: 039360_DETREM_DWT



SECOND FLOOR PLAN - SAMPLE LOCATIONS 5/22/16				
 NORTH ORIENTATION	 ROSE & WESTRA, INC. ENVIRONMENTAL CONSULTANTS Grand Rapids, Michigan	NATIONAL HERITAGE ACADEMIES DETROIT PREMIER ACADEMY 7781 ASBURY PARK, DETROIT, MICHIGAN DRINKING WATER TESTING		PROJECT NO. 0063.03936.0
				<div style="font-size: 2em; font-weight: bold;">2</div> FIGURE NO.
SCALE: 1" = 30' 	CREATED BY: KJB APPROVED BY: WJB DATE: 5/25/16 FILE NAME: 039360_DETREM_DWT			

ATTACHMENT 2

PREIN & NEWHOF LABORATORY REPORT

Customer Name: Rose & Westra, Inc.
4328 3 Mile Rd NW
Grand Rapids, MI 49544

Contact Name: Rose & Westra, Inc.
4328 3 Mile Rd NW
Grand Rapids, MI 49544

Project: 0063.03936.0

Project No: 2160001

Lab Order: 1605688

Matrix: DRINKING WATER
Sampled By: W. Bosze

Lab ID: 1605688-001A
Client Sample ID: DFS-100-FD

Collection Date: 5/22/2016
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.066	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.035	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-002A
Client Sample ID: DFS-100-FL

Collection Date: 5/22/2016 10:29:00
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.013	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.074	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-003A
Client Sample ID: DFS-103-FD

Collection Date: 5/22/2016 10:32:00
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.055	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.041	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-004A
Client Sample ID: DFS-103-FL

Collection Date: 5/22/2016 10:37:00
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.047	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-005A
Client Sample ID: FP-125-FD

Collection Date: 5/22/2016 10:39:00
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.280	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.052	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Project: 0063.03936.0

Project No: 2160001

Lab Order: 1605688

Matrix: DRINKING WATER

Sampled By: W. Bosze

Lab ID: 1605688-006A
Client Sample ID: FP-125-FL

Collection Date: 5/22/2016 10:44 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.018	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.023	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-007A
Client Sample ID: TL-132-FD

Collection Date: 5/22/2016 10:41 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.200	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.033	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-008A
Client Sample ID: TL-132-FL

Collection Date: 5/22/2016 10:41 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.021	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.020	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-009A
Client Sample ID: DFS-113-FD

Collection Date: 5/22/2016 10:48 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.053	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.024	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-010A
Client Sample ID: DFS-113-FL

Collection Date: 5/22/2016 10:53 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.042	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.022	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-011A
Client Sample ID: DFS-213-FD

Collection Date: 5/22/2016 10:58 am
Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.024	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.031	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Prein&Newhof

Project: 0063.03936.0

Project No: 2160001

Lab Order: 1605688

Matrix: DRINKING WATER

Sampled By: W. Bosze

Lab ID: 1605688-012A

Collection Date: 5/22/2016 11:03 am

Client Sample ID: DFS-213-FL

Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.011	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.039	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-013A

Collection Date: 5/22/2016 11:00 am

Client Sample ID: CS-213-FD

Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.435	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.042	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-014A

Collection Date: 5/22/2016 11:05 am

Client Sample ID: CS-213-FL

Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.095	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.042	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-015A

Collection Date: 5/22/2016 11:08 am

Client Sample ID: DFS-201A-FD

Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.056	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.031	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

Lab ID: 1605688-016A

Collection Date: 5/22/2016 11:13 am

Client Sample ID: DFS-201A-FL

Received Date: 5/23/2016 9:45 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.012	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.087	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/24/2016	SM3113B

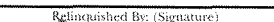

Prein&Newhof

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

wjbo33c@rosewvta.com

Page 1 of 2

Lab Use		Sample Information			MATRIX	Preservative						Analysis Requested																	
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	None		H2SO4	HNO3	HCl	NaOH	Other	Lead	Copper	Iron																
5688-1	5/22/16	10:24a	DPS-100-FD	D	X						X	X	X																
2	5/22/16	10:29a	DPS-100-FL	D	X						X	X	X																
3	5/22/16	10:32a	DPS-103-PD	D	X						X	X	X																
4	5/22/16	10:37a	DPS-103-FL	D	X						X	X	X																
5	5/22/16	10:39a	FP-125-FD	D	X						X	X	X																
6	5/22/16	10:41a	FP-125-FL	D	X						X	X	X																
7	5/22/16	10:41a	TL-132-PD	D	X						X	X	X																
8	5/22/16	10:41a	TL-132-FL	D	X						X	X	X																
9	5/22/16	10:48a	DPS-113-PD	D	X						X	X	X																
10	5/22/16	10:53a	DPS-113-FL	D	X						X	X	X																
Comments:																													

Relinquished By: (Signature) 	Date 5/23/16	Time	Received By: (Signature)	Date	Time	Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory By: 	Date 5/23/16	Time 094	Data Package Relinquished By:	Date	Time	Data Received By:	Date	Time	No. 31459		

Prein & Newhof

Engineers ■ Surveyors ■ Environmental ■ Laboratory

3260 Evergreen Drive NE

Grand Rapids, MI 49525

t. 616-364-7600

f. 616-364-4222

Client: Rose & Westra, Inc.

Project Name: 0063, 03936.0

Project #: 0063, 03936.0

Send Results to: William Rosze

Sampling Personnel: William Rosze
wjrosze@rosewestra.com

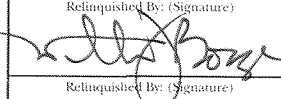

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

CHAIN OF CUSTODY

Page 2 of 2

Lab Use		Sample Information				Preservative						Analysis Requested									
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	Lead	Copper	Iron								
5088-11	5/22/16	10:58a	DFS-213-FD	D	X						X	X	X								
12	5/22/16	11:03a	DFS-213-PL	D	X						X	X	X								
13	5/22/16	11:00a	CS-213-FD	D	X						X	X	X								
14	5/22/16	11:05a	CS-213-PL	D	X						X	X	X								
15	5/22/16	11:08a	DFS-201A-FD	D	X						X	X	X								
16	5/22/16	11:13a	DFS-201A-PL	D	X						X	X	X								

Comments:

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time	Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
	5/22/16										
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory By:	Date	Time	Data Package Relinquished By:	Date	Time	Data Received By:	Date	Time	No. 31722		
	5/23/16	0900									