

**VILLAGE OF NEWBERRY
WATER AND LIGHT BOARD MEETING
Tuesday, November 13, 2018
Meeting Location: 302 East McMillan Ave
Meeting Time: 5:30 p.m.**

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. APPROVAL OF AGENDA

5. APPROVAL OF MINUTES

1. Water and Light Board Meeting – Regular Session – Tuesday, October 9, 2018 at 5:30 p.m.

6. WATER AND LIGHT CHAIRPERSON ANNOUNCEMENTS

1. None Prescheduled

7. PUBLIC COMMENTS – Prior to consideration of official business, citizens may speak on any matter citizens may wish to bring to the attention of the Water and Light Board. Please limit comments to 3 minutes as per General Village Law.

1. None Prescheduled

8. SUBMISSION OF BILLS AND FINANCIAL UPDATES

1. Water & Light – Monthly Bills – September 2018 - Revised
(Note: As of 10/9/18 the Consumers Energy bill had not been received. The revised totals are being resubmitted for review.)

582	Electric Fund	\$221,879.83
591	Water Fund	\$4,002.97
Total:		\$225,882.80

2. Water & Light – Monthly Bills – October 2018

582	Electric Fund	\$244,360.00
591	Water Fund	\$192,616.68
Total:		\$436,976.68

582	Christmas Lights Fund – as of 9/30/2018	\$14,502.96
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(Note: Bank statement for Save the Bells account has not been received as of 11/9/18.)

9. PETITIONS AND COMMUNICATIONS – Communications addressed to the Water and Light Board are distributed to all members and are acknowledged for information or are referred to a committee or staff for follow-up.

1. None Prescheduled

10. INTRODUCTION AND ADOPTION OF ORDINANCES AND RESOLUTIONS

1. None Prescheduled

11. REPORTS OF VILLAGE MANAGEMENT – The Village Manager, Assistant Village Manager, and Superintendent of Water and Light may submit reports or information to the Water and Light Board as updates and consideration.

1. Superintendent of Water and Light
2. Assistant Village Manager
 - a. PFAS Update from DEQ
3. Village Manager

12. REPORTS OF COMMITTEES

1. Save the Bells

13. UNFINISHED BUSINESS

1. None Prescheduled

14. NEW BUSINESS

1. None Prescheduled

15. COMMENTS BY BOARD MEMBERS

16. ADJOURNMENT - REGULAR SESSION

NEWBERRY WATER & LIGHT BOARD
REGULAR MEETING MINUTES
October 9, 2018

Present: Acting-Chairperson Vincent, Brown, Feldhusen, Medelis.

Absent: None.

Also Present: Village Manager – James-Mesloh, Assistant Village Manager – Vallad, Clerk -Schummer, Director of Human Resources & Community Engagement - Watkins, Lori Stokes, Ken Stokes, Chuck Pipes, Tina Pipes, Bruce Lane.

Call to Order: Board member Vincent, Acting-Chairperson, called the meeting to order at 5:30 p.m. at the Village of Newberry Offices, 302 East McMillan Avenue, followed by the Pledge of Allegiance.

Approval of Agenda: Moved by Brown, support by Feldhusen, **CARRIED**, to approve agenda as submitted. Ayes: All.

Approval of Minutes: Moved by Brown, support by Feldhusen, **CARRIED**, to approve minutes from the September 11, 2018 W&L meeting as presented. Ayes: All.

Water and Light Chairperson Announcements: None.

Public Comments on Agenda Items: Comments heard from: Lori Stokes – 301 W. John Street.

Submission of Bills and Financial Updates:

- A.) **Water & Light Monthly Bills – August 2018 – Revised** – Motion by Brown, support by Feldhusen, **CARRIED**, to approve the revised August 2018 Electric Fund bill in the amount of \$136,972.41 and the Water Fund bill for \$13,051.95. Ayes: All. Vallad will check on the Scada Alarm System entry in the amount of \$240.00, he believes that is should be charged to Water rather than Electric.
- B.) **Water & Light – Monthly Bills – September 2018** - Motion by Brown, support by Feldhusen, **CARRIED**, recommend Village Council pay the September 2018 Electric Fund bill in the amount of \$157,103.03 Discussion followed. Motion by Medelis, support by Feldhusen, **CARRIED**, recommend Village Council pay the September 2018 Water Fund bill in the amount of \$4,002.97. Discussion followed. Ayes: All.
- C.) **Christmas Light Fund** is currently at \$14,502.96.
- D.) **Consumers Energy Bill** – Moved by Brown, support by Feldhusen, **CARRIED**, to approve the submission of the Consumers Energy electric bill at the Village Council meeting, because the bill has not been received as of October 9, 2018.

Petitions and Communications: None.

Introduction and Adoption of Ordinances and Resolutions:

- 1.) Review Draft Version – Ordinance A: Ordinance Relative to the Management, Control and Use of the Water and Light Plants and Distribution Systems of the Village of Newberry. The Village manager asked if there were any changes, corrections needed. Discussion followed. Tabled until the next meeting.

Reports of Village Management:

- 1.) Superintendent of Water and Light: Joe Lively, working foreman, submitted a written report.
- 2.) Assistant Village Manager: Vallad gave a verbal report along with presenting charts.
- 3.) Village Manager: James-Mesloh gave a verbal as well as written report. The Audit presentation was held on Wednesday October 3rd at 6:30 p.m., in the school auditorium. The Christmas Parade is scheduled for Wednesday November 28th at 5:00 p.m. Vallad stated that the Village has not been charging for the ‘Power Factor’, which will have to be considered when discussing the rates. Discussion followed.

Reports of Committees:

- 1.) Save the Bells: Schummer gave a verbal report.

Unfinished Business: None.

New Business: None.

Comments by Board Members: None.

Adjourn Meeting: Motion by Medelis, support by Feldhusen, **CARRIED**, to adjourn meeting at 6:16 p.m. Ayes: All.

These minutes are unapproved until voted on at the next meeting.

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
NON-DEPARTMENTAL	ELECTRIC FUND	AFLAC	AFLAC POST TAX	15.60
			AFLAC POST TAX	15.60
		STATE OF MICHIGAN	STATE WITHHOLDING	508.84
			STATE WITHHOLDING	6.38
			STATE WITHHOLDING	478.07
		NATIONWIDE RETIREMENT SOLUTIONS	NATIONWIDE	6,242.07
			NATIONWIDE	5,737.51
		VILLAGE OF NEWBERRY	AUGUST 2018 GARBAGE COLLEC	4,408.75
		MICHIGAN COUNCIL 25	MI COUNCIL 25/UNION DUES	162.60
		VILLAGE OF NEWBERRY	AUGUST 2018 SEWER COLLECTI	40,685.31
		STATE OF MICHIGAN	LIEAF-#6099 AUGUST	1,288.96
		STATE OF MICHIGAN	SALES TAX COLLECTED	6,387.92
			TOTAL:	65,937.61
ELECTRIC DISTRIBUTION	ELECTRIC FUND	AFLAC	AFLAC	148.32
			AMAZON CAPITAL SERVICES	7.95
		AMAZON CAPITAL SERVICES	AMAZON CAPITAL SERVICES	17.40
			AMAZON CAPITAL SERVICES	6.00
			AMAZON CAPITAL SERVICES	6.00
		DSTECH	MONITOR BACKUP OF SERVER	7.50
			ADDITIONAL GB STORAGE	79.83
			MICROSOFT OFFICE 365	80.75
		MONITORING ANTIVIRUS	MONITORING ANTIVIRUS	22.47
			MICROSOFT EXCHANGE	1.75
			REMOTE MONITORING W/PATCH	17.44
		OK INDUSTRIAL SUPPLY	OK INDUSTRIAL SUPPLY	19.77
			FAIR, ALMA	150.00
			FAIR, ALMA	150.00
		FOSTER'S ACE HARDWARE	FOSTER'S ACE HARDWARE	12.99
			FOSTER'S ACE HARDWARE	249.00
			FOSTER'S ACE HARDWARE	249.00
		HIAWATHA TELEPHONE COMPANY	HIAWATHA TELEPHONE COMPANY	50.00
		POWER LINE SUPPLY COMPANY	POWER LINE SUPPLY COMPANY	77.62
			POWER LINE SUPPLY COMPANY	4,574.00
			POWER LINE SUPPLY COMPANY	259.19
		SWOGGER, BRUCE & MILLAR LAW FIRM, P.C.	LEGAL ADVICE	24.00
			LEGAL ADVICE	24.00
		US POSTAL SERVICE	US POSTAL SERVICE	485.52
			TOTAL:	6,291.50
GENERAL EXPENSES	ELECTRIC FUND	AMAZON CAPITAL SERVICES	AMAZON CAPITAL SERVICES	33.72
			AMAZON CAPITAL SERVICES	33.72
		ARISTA INFORMATION SYSTEMS INC	ARISTA INFORMATION SYSTEMS	296.25
			ARISTA INFORMATION SYSTEMS	296.25
		AT&T	AT&T	132.88
			AT&T	132.88
		BLUE CROSS BLUE SHIELD OF MICHIGAN	BLUE CROSS BLUE SHIELD OF	1,447.97
			BLUE CROSS BLUE SHIELD OF	8,654.43
		BURTON, LONDON	BURTON, LONDON	148.75
			BURTON, LONDON	148.75
		OK INDUSTRIAL SUPPLY	OK INDUSTRIAL SUPPLY	13.98
			OK INDUSTRIAL SUPPLY	13.98
		44 NORTH	44 NORTH	4.60
			44 NORTH	4.60
		HIAWATHA TELEPHONE COMPANY	JAMADOTS INTERNET	50.00
			JAMADOTS INTERNET	50.00
		I.T. RIGHT	I.T. RIGHT	720.00
			I.T. RIGHT	720.00
		NATIONAL OFFICE PRODUCTS	NATIONAL OFFICE PRODUCTS	9.38
			NATIONAL OFFICE PRODUCTS	24.75
		NEWBERRY WATER & LIGHT	NATIONAL OFFICE PRODUCTS	9.88
			BC/BS WITHHOLDING	853.32
		NORTHERN MICHIGAN PUBLIC SERVICE	BC/BS WITHHOLDING	810.65
			ANNUAL MEMBERSHIP	30.00
		RANGE TELECOMMUNICATION	ANNUAL MEMBERSHIP	30.00
			RANGE TELECOMMUNICATION	180.00
			RANGE TELECOMMUNICATION	180.00
			RANGE TELECOMMUNICATION	180.00
			RANGE TELECOMMUNICATION	180.00
			RANGE TELECOMMUNICATION	180.00

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
			RANGE TELECOMMUNICATION	7.83
		SEMCO ENERGY GAS CO.	SEMCO ENERGY GAS CO.	14.81
			SEMCO ENERGY GAS CO.	14.81
		TAHUAMENON AREA CREDIT UNION	TAHUAMENON AREA CREDIT UN	200.00
			TAHUAMENON AREA CREDIT UN	7.63
		U S BANK NA	U S BANK NA	55,000.00
			U S BANK NA	9,532.50
		US BANK EQUIP FINANCE	COPIER LEASE AND SURCHARGE	192.98
		VERIZON	VERIZON	17.50
			VERIZON	18.83
			VERIZON	18.46
			VERIZON	18.46
			VERIZON	18.46
			VERIZON	36.93
			VERIZON	18.46
			VERIZON	13.83
			VERIZON	13.83
			VERIZON	27.65
			VERIZON	13.83
			VERIZON	13.26
			VERIZON	13.83
			VERIZON	26.52
			VERIZON	13.83
			VERIZON	13.83
			TOTAL:	78,688.63
ELECTRIC GENERATION	ELECTRIC FUND	DANNY'S AUTO VALUE	DANNY'S AUTO VALUE	5.50
		G C MAINTENANCE	G C MAINTENANCE	250.00
		WEX BANK - SPEEDWAY UNIVERSAL	WEX BANK - SPEEDWAY UNIVER	289.81
			TOTAL:	545.31
BUILDING MAINTENANCE	ELECTRIC FUND	AMAZON CAPITAL SERVICES	AMAZON CAPITAL SERVICES	63.84
		FOSTER'S ACE HARDWARE	FOSTER'S ACE HARDWARE	8.99
			FOSTER'S ACE HARDWARE	4.76
		VERIZON	VERIZON	36.93
			TOTAL:	114.52
PURCHASED POWER	ELECTRIC FUND	CLOVERLAND ELECTRIC CO-OP	CLOVERLAND ELECTRIC CO-OP	5,211.90
		CMS ENERGY RESOURCE MGT	CMS ENERGY RESOURCE MGT	64,776.80
			TOTAL:	69,988.70
SAVE THE BELLS	ELECTRIC FUND	OK INDUSTRIAL SUPPLY	OK INDUSTRIAL SUPPLY	5.00
		FOSTER'S ACE HARDWARE	FOSTER'S ACE HARDWARE	41.96
		NEWBERRY NEWS	8/1 & 8/8 JINGLE	96.00
		NEWBERRY REDI-MIX	NEWBERRY REDI-MIX	85.30
			NEWBERRY REDI-MIX	85.30
			TOTAL:	313.56
WATER SYSTEM	WATER FUND	AMAZON CAPITAL SERVICES	AMAZON CAPITAL SERVICES	33.72
			AMAZON CAPITAL SERVICES	7.95
			CHLORINE POWDER PILLOWS	29.00
			SHOCK ABSORBERS	156.72
			POCKET COLORIMETER/CHLORIN	484.85
			GRASS/STRAW BLANKETS	532.53
		ARISTA INFORMATION SYSTEMS INC	ARISTA INFORMATION SYSTEMS	296.25
		DANNY'S AUTO VALUE	DANNY'S AUTO VALUE	107.78

DEPARTMENT	FUND	VENDOR NAME	DESCRIPTION	AMOUNT
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----- FUND TOTALS -----

582 ELECTRIC FUND 221,879.83

591 WATER FUND 4,002.97

GRAND TOTAL: 225,882.80

TOTAL PAGES: 4

WATER & LIGHT BOARD PAYABLES OCTOBER 2018

GL Number	Vendor	Inv. Line Desc	Invoice Desc.	Amount
Fund 582 Electric Fund				
Dept 582 ELECTRIC DISTRIBUTION				
582-582-752.100	AMAZON CAPITAL SERVICES	OPERATING SUPPLIES	BATTERIES & LED WALL PACK	18.98
582-582-753.000	US BANK EQUIP FINANCE	TOOLS & EQUIPMENT	COPIER LEASE AND SURCHARGE	96.49
582-582-753.000	RESCO ELECTRIC UTILITY SUPPLY	TOOLS & EQUIPMENT	POLE STRAP/TRANSFORMER SLING	101.16
582-582-801.000	POWER LINE SUPPLY COMPANY	PROFESSIONAL & CONTRACTUAL	GLOVES/TESTING SLEEVES	1,034.14
582-582-801.000	CTC ENGINEERING	PROFESSIONAL & CONTRACTUAL	ENGINEERING SERVICES PERFORMED THRU SEPT. 2018	669.40
582-582-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	831.25
582-582-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	2,212.50
582-582-850.000	VERIZON	FAX	ACCOUNT NUMBER 942077532-00001	11.28
582-582-850.000	HIAWATHA TELEPHONE COMPANY	TELEPHONE	JAMADOTS	50.00
			Total For Dept 582 ELECTRIC DISTRIBUTION	5,025.20
Dept 583 GENERAL EXPENSES				
582-583-719.000	NEWBERRY WATER & LIGHT	HOSPITALIZATION	BC/BS WITHHOLDING	895.99
582-583-719.000	44 NORTH	HOSPITALIZATION	COBRA RETIREES OCTOBER	4.60
582-583-719.000	BLUE CROSS BLUE SHIELD OF MICHIGAN	HOSPITALIZATION	G-007005227 DIV-0001	2,412.55
582-583-752.000	NATIONAL OFFICE PRODUCTS	OFFICE SUPPLIES	ENVELOPES	122.50
582-583-752.000	NATIONAL OFFICE PRODUCTS	OFFICE SUPPLIES	PAPER	34.75
582-583-752.100	STATE OF MICHIGAN - MIDEAL PROGRAM	OPERATING SUPPLIES	MAP CABINETS	162.50
582-583-752.100	RAHILLY'S IGA	OPERATING SUPPLIES	WATER	7.99
582-583-752.100	FOSTER'S ACE HARDWARE	OPERATING SUPPLIES	STRAP RIGID 2HOLE	8.94
582-583-752.100	LYNN AUTO PARTS INC.	OPERATING SUPPLIES	SANDING WHEELS	7.98
582-583-752.100	LYNN AUTO PARTS INC.	OPERATING SUPPLIES	SHILD RIVETS	5.49
582-583-752.100	DANNY'S AUTO VALUE	OPERATING SUPPLIES	20 CU/FT OXYGEN	13.50
582-583-752.100	RAHILLY'S IGA	OPERATING SUPPLIES	WATER	3.99
582-583-752.200	BS&A SOFTWARE	IT SOFTWARE	CASH RECIEPTING	106.25
582-583-752.200	BS&A SOFTWARE	IT SOFTWARE	BSA PROGRAMMING	4,173.75
582-583-752.200	BS&A SOFTWARE	IT SOFTWARE	CASH RECIEPTING PROGRAMMING	447.50
582-583-752.200	BS&A SOFTWARE	IT SOFTWARE	HONEYWELL LINEAR SCANNER	100.00
582-583-753.000	I.T. RIGHT	TOOLS & EQUIP (UND CAP THRESH)	BILLING CLERK COMPUTER	320.94
582-583-759.000	WEX BANK - SPEEDWAY UNIVERSAL	GAS & OIL	FLEET FUEL/GASOLINE	233.07

582-583-801.000	MANISTIQUE COMPUTERS LLC	PROFESSIONAL & CONTRACTUAL	SERVER CLEAN UP	242.95
582-583-801.000	FAIR, ALMA	PROFESSIONAL & CONTRACTUAL	OCTOBER CLEANING	75.00
582-583-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	500.00
582-583-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	CONSOLIDATION PROJECT	400.00
582-583-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	PREP CVTRS DOCUMENTS	125.00
582-583-801.000	RANGE TELECOMMUNICATIONS	PROFESSIONAL & CONTRACTUAL	MISSDIG	16.75
582-583-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	500.00
582-583-802.000	NORTHERN CREDIT BUREAU	PROFESSIONAL & CONTRACTUAL	UTILITY ACCOUNT COLLECTION	3.80
582-583-850.000	AT&T	COLLECTION EXPENSE	WATER/LIGHT BACK UP PHONE	163.65
582-583-850.000	VERIZON	906-291-1223 MANAGER (SPLIT)	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	906-291-1621 ASST MGR (SPLIT)	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	906-291-1627 SUPERINTENDENT	ACCOUNT NUMBER 942077532-00003	27.80
582-583-850.000	VERIZON	906-291-1626 CLERK	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	906-291-1632 MECHANIC (SPLIT)	ACCOUNT NUMBER 942077532-00003	13.34
582-583-850.000	VERIZON	906-291-1622 HR & CE (SPLIT)	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	906-293-5681 WATER LIGHT CLERK	ACCOUNT NUMBER 942077532-00003	26.67
582-583-850.000	VERIZON	906-291-1633 COUNCIL CHAMBERS	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	906-291-1625 FINANCE (SPLIT)	ACCOUNT NUMBER 942077532-00003	13.90
582-583-850.000	VERIZON	CELL 906-291-0578 PRES (SPLIT)	ACCOUNT NUMBER 942077532-00002	21.38
582-583-850.000	VERIZON	CELL 906-291-0530 MANAGER (SPLIT)	ACCOUNT NUMBER 942077532-00002	21.38
582-583-850.000	VERIZON	CELL 906-291-0606 ASST MGR (SPLIT)	ACCOUNT NUMBER 942077532-00002	21.38
582-583-850.000	VERIZON	CELL 906-291-0055 HR	ACCOUNT NUMBER 942077532-00002	21.38
582-583-850.000	VERIZON	CELL 906-291-0608 LINEMAN	ACCOUNT NUMBER 942077532-00002	42.76
582-583-850.000	VERIZON	CELL 906-450-0919 SUPERINTENDENT	ACCOUNT NUMBER 942077532-00002	42.76
582-583-850.000	VERIZON	CELL 906-291-0136 MECHANIC	ACCOUNT NUMBER 942077532-00002	21.38
582-583-850.000	ATT U-VERSE	TELEPHONE	146204500 - CAPACITY METER	71.41
582-583-851.000	TACU	POSTAGE - REMINDER NOTICES	CREDIT CARD PAYMENT	37.50
582-583-915.000	TACU	MEMBERSHIPS & SUBSCRIPTIONS	CREDIT CARD PAYMENT- AMAZON PRIME	29.75
582-583-921.000	SEMCO ENERGY GAS CO.	HEAT	NATURAL GAS	110.82
582-583-921.000	SEMCO ENERGY GAS CO.	HEAT	NATURAL GAS	32.32
582-583-932.000	DANNY'S AUTO VALUE INC	VEHICLE REPAIR & MAINT.	MANIFOLD SET/GASKET/BOLTS/MOUNT	59.10
582-583-932.000	DANNY'S AUTO VALUE INC	VEHICLE REPAIR & MAINT.	MANIFOLD SET	81.58
582-583-932.000	FOSTER'S ACE HARDWARE	VEHICLE REPAIR & MAINT.	SCRAPER WALL/PUTTY KNIFE	5.37
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	5W30 OIL	35.88
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	MANIFOLD GASKET SET	23.00
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	RETURN/PURCHASE	(32.50)
582-583-932.000	DANNY'S AUTO VALUE	VEHICLE REPAIR & MAINT.	MANIFOLD GASKET	36.99
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	ADD-A-LINE	7.22
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	BATT/ACC	6.49
582-583-932.000	LYNN AUTO PARTS INC.	VEHICLE REPAIR & MAINT.	OIL FILTER	3.11
582-583-991.000	US BANK OPERATIONS CENTER	PRINCIPAL NOTES PAYABLE 2002	BOND 5045/4423	55,000.00
582-583-991.200	US BANK OPERATIONS CENTER	NOTES PAYABLE 2005	BOND 5045/4423	80,000.00
582-583-992.000	US BANK OPERATIONS CENTER	INTEREST NOTE PAYABLE 2002	BOND 5045/4423	7,750.00
582-583-992.200	US BANK OPERATIONS CENTER	INTEREST NOTE PAYABLE 2005	BOND 5045/4423	5,676.25
			Total For Dept 583 GENERAL EXPENSES	160,367.36

Fund 591 Water Fund

Dept 000

591-000-146.000	US BANK EQUIP FINANCE	OFFICE EQUIPMENT & FURNITURE	COPIER LEASE AND SURCHARGE	96.49
			Total For Dept 000	96.49
Dept 536 WATER SYSTEM				
591-536-719.000	44 NORTH	HOSPITALIZATION	COBRA RETIREES OCTOBER	3.45
591-536-719.000	BLUE CROSS BLUE SHIELD OF MICHIGAN	HOSPITALIZATION	G-007005227 D-0000	1,294.39
591-536-719.000	BLUE CROSS BLUE SHIELD OF MICHIGAN	HOSPITALIZATION	G-007005227 DIV-0001	2,412.55
591-536-719.000	BLUE CROSS BLUE SHIELD OF MICHIGAN	HOSPITALIZATION	G-007005227 DIV-0001	4,825.10
591-536-752.000	VERIZON	FAX & DATA PLANS	ACCOUNT NUMBER 942077532-00001	51.29
591-536-752.000	NATIONAL OFFICE PRODUCTS	OFFICE SUPPLIES	ENVELOPES	122.50
591-536-752.000	NATIONAL OFFICE PRODUCTS	OFFICE SUPPLIES	PAPER	34.75
591-536-752.100	HAWKINS INC	OPERATING SUPPLIES	AZONE EPA REG	144.00
591-536-752.100	STATE OF MICHIGAN - MIDEAL PROGRAM	OPERATING SUPPLIES	MAP CABINETS	162.50
591-536-752.100	RAHILLY'S IGA	OPERATING SUPPLIES	WATER	7.98
591-536-752.100	DANNY'S AUTO VALUE	OPERATING SUPPLIES	20 CU/FT OXYGEN	13.49
591-536-752.100	RAHILLY'S IGA	OPERATING SUPPLIES	WATER	3.99
591-536-752.200	BS&A SOFTWARE	IT SOFTWARE	CASH RECIEPTING	106.25
591-536-752.200	BS&A SOFTWARE	IT SOFTWARE	BSA PROGRAMMING	4,173.75
591-536-752.200	BS&A SOFTWARE	IT SOFTWARE	CASH RECIEPTING PROGRAMMING	447.50
591-536-752.200	BS&A SOFTWARE	IT SOFTWARE	HONEYWELL LINEAR SCANNER	100.00
591-536-752.200	PERCEPTIVE CONTROLS	IT SOFTWARE	REMOTE SUPPORT- LOSING DATA READINGS	360.00
591-536-753.000	I.T. RIGHT	TOOLS & EQUIP UND CAP THRESH	BILLING CLERK COMPUTER	320.94
591-536-753.000	AMAZON CAPITAL SERVICES	TOOLS & EQUIP UND CAP THRESH	PIPE WRENCHES	37.56
591-536-759.000	DANNY'S AUTO VALUE INC	GAS, OIL & GREASE	RETURN NON-DETERGENT	(9.87)
591-536-759.000	WEX BANK - SPEEDWAY UNIVERSAL	GAS, OIL & GREASE	FLEET FUEL/GASOLINE	233.07
591-536-776.000	FOSTER HARDWARE	BUILDING MAINTENANCE	BROOMS	49.98
591-536-776.000	AMAZON CAPITAL SERVICES	BUILDING MAINTENANCE	BATTERIES & LED WALL PACK	84.99
591-536-801.000	STATE OF MICHIGAN	PROFESSIONAL & CONTRACTUAL	WATER SAMPLES	175.00
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	831.25
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	2,212.50
591-536-801.000	MANISTIQUE COMPUTERS LLC	PROFESSIONAL & CONTRACTUAL	SERVER CLEAN UP	242.95
591-536-801.000	FAIR, ALMA	PROFESSIONAL & CONTRACTUAL	OCTOBER CLEANING	75.00
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	HEALTH ASSESMENT	500.00
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	CONSOLIDATION PROJECT	400.00
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	CVTRS DOCUMENTS	125.00
591-536-801.000	RANGE TELECOMMUNICATIONS	PROFESSIONAL & CONTRACTUAL	MISSDIG	16.75
591-536-801.000	MICHIGAN DEPARTMENT OF QUALITY	PROFESSIONAL & CONTRACTUAL	WSSN: 04720 NEWBERRY WATER LIGHT	1,338.05
591-536-801.000	PLANTE & MORAN	PROFESSIONAL & CONTRACTUAL	10-YEAR FINANCIAL ASSESSMENT	500.00
591-536-801.000	SAULT STE MARIE CITY HALL	PROFESSIONAL & CONTRACTUAL	WATER SAMPLES	54.00
591-536-802.000	NORTHERN CREDIT BUREAU	COLLECTION EXPENSE	UTILITY ACCOUNT COLLECTION	3.80
591-536-851.000	TACU	POSTAGE - REMINDER NOTICES	CREDIT CARD PAYMENT	37.50
591-536-915.000	TACU	MEMBERSHIPS & SUBSCRIPTIONS	CREDIT CARD PAYMENT - AMAZON PRIME	29.75

591-536-929.000	AMAZON CAPITAL SERVICES	REPAIR & MAINTENANCE	SOLA/HEVI-DUTY SDU500	399.99
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	DIESEL DET. FLUID	16.12
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	MANIFOLD SET/GASKET/BOLTS/MOUNT	59.11
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	AC SPARK PLUG	61.92
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	PLUGS	53.84
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	RETURN PLUGS	(53.84)
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	OIL FILTERS	16.05
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	VALVE COVER GASKET SET	16.81
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	R&R CYL HEAD	143.58
591-536-932.000	DANNY'S AUTO VALUE INC	VEHICLES REPAIRS & MAINTENANCE	ADD-A-LINE	7.22
591-536-932.000	DANNY'S AUTO VALUE	VEHICLES REPAIRS & MAINTENANCE	BATT/ACC	6.50
591-536-932.000	LYNN AUTO PARTS INC.	VEHICLES REPAIRS & MAINTENANCE	OIL FILTER	3.11
591-536-932.000	LYNN AUTO PARTS INC.	VEHICLES REPAIRS & MAINTENANCE	AIR FILTER/BREATHER FILTER	6.82
591-536-932.000	LYNN AUTO PARTS INC.	VEHICLES REPAIRS & MAINTENANCE	LOAN 91-05	107,000.00
591-536-991.400	USDA	PRINCIPAL 2014 WATER BOND	LOAN 91-05	63,261.25
591-536-992.400	USDA	INTEREST 2014 WATER BOND	Total For Dept 536 WATER SYSTEM	192,520.19
			Total For Fund 591 Water Fund	192,616.68
			Fund Totals:	
			Fund 582 Electric Fund	244,360.00
			Fund 591 Water Fund	192,616.68
			Total For All Funds:	436,976.68

VILLAGE OF NEWBERRY



Moose Capital of Michigan

302 East McMillan Avenue, Newberry, MI 49868 Fax (906) 293-8890

NEWBERRY WATER AND LIGHT REPORT OCTOBER 2018

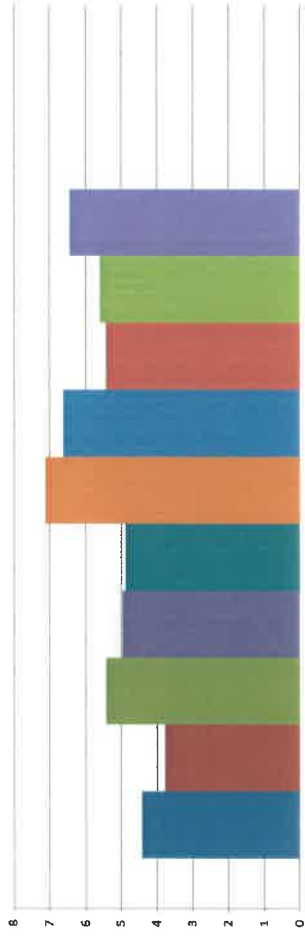
- New Service (Pole & Under Ground) Co. Rd. 451
- New Service (Dollarville)
- Red Tags
- Meter Reading
- Street Lights (Replaced Bulbs)
- Brushing
- Wind Storm Outages (Charles Rd, W. Ave C, K-Street)
- 2 Trees on Wire Truman/Handy
- Removed Tree at Robinson/W. Ave C
- Disconnects (Non-Payment – 12)
- Repaired Broke Secondary Wire (4 Mile Corner)
- Flushing
- Pumped Hydrants
- Removed Trees At 610 Handy and Co. Rd. 405
- Seasonal Turn Offs
- Down Wire (County Truck, Co. Rd. 430)
Replaced Wire and Transformer
- Callout (Outage E Ave A- Squirrel
- Relocated Service Wire (W. Victory)
- Miss Digs

Water & Light
Water Pumpage Report - 2018

MONTH	12237.98	X 1,000,000	1000'S GALS		PUMPED NOT BILLED FOR	\$ BILLED FOR	GALS BILLED	LOSS	BILLED FOR	LOST REVENUE
JAN '17	4.052	4052000	4052	\$ 9.25	\$ 43,601.00	\$ 35,835.92	3213	21%	79%	\$ 7,765.08
FEB '17	5.586	5586000	5586	\$ 9.25	\$ 57,790.50	\$ 35,068.45	3123	44%	56%	\$ 22,722.05
MAR '17	4.919	4919000	4919	\$ 9.25	\$ 51,620.75	\$ 32,783.23	2870	42%	58%	\$ 18,837.52
APR '17	4.44	4440000	4440	\$ 9.25	\$ 47,190.00	\$ 26,693.75	2209	50%	50%	\$ 20,496.25
MAY '17	4.862	4862000	4862	\$ 9.25	\$ 51,093.50	\$ 33,410.04	2930	40%	60%	\$ 17,683.46
JUNE '17	6.218	6218000	6218	\$ 9.25	\$ 63,636.50	\$ 41,981.56	3867	38%	62%	\$ 21,654.94
JULY '17	5.236	5236000	5236	\$ 9.25	\$ 54,553.00	\$ 32,873.46	2888	45%	55%	\$ 21,679.54
					GOAL				REU'S	
AUG '17	5.394	5394000	5394		\$ 80,000.00	\$ 82,799.37	5394	103%	1,103.99	\$ (2,799.37)
SEPT '17	5.566	5566000	5566		\$ 80,000.00	\$ 82,267.11	5566	103%	1,096.89	\$ (2,267.11)
OCT '17	4.53	4530000	4530		\$ 80,000.00	\$ 82,568.39	4530	103%	1,100.91	\$ (2,568.39)
NOV '17	4.634	4634000	4634		\$ 80,000.00	\$ 82,239.62	4634	103%	1,096.53	\$ (2,239.62)
DEC '17	4.339	4339000	4339		\$ 80,000.00	\$ 82,001.71	4339	103%	1,093.36	\$ (2,001.71)
					GOAL				REU'S	
JAN '18	4.428	4428000	4428		\$ 80,000.00	\$ 74,408.55	4428	93.0%	992.11	\$ 5,591.45
FEB '18	3.780	3780000	3780		\$ 80,000.00	\$ 77,569.72	3780	97.0%	1,034.26	\$ 2,430.28
MAR '18	5.422	5422000	5422		\$ 80,000.00	\$ 77,216.00	5422	96.5%	1,029.55	\$ 2,784.00
APR '18	4.9589	4958900	4958.9		\$ 80,000.00	\$ 86,588.54	4958.9	108.2%	1,154.51	\$ (6,588.54)
MAY '18	4.8636	4863600	4863.6		\$ 80,000.00	\$ 79,932.68	4863.6	99.9%	1,065.77	\$ 67.32
JUNE '18	7.119	7119000	7119		\$ 80,000.00	\$ 78,705.95	7119	98%	1,049.41	\$ 1,294.05
JULY '18	6.623	6623000	6623		\$ 80,000.00	\$ 79,353.86	6623	99%	1,058.05	\$ 646.14
AUG '18	5.4298	5429800	5429.8		\$ 80,000.00	\$ 79,319.08	5429.8	99%	1,057.59	\$ 680.92
SEPT '18	5.5869	5586900	5586.9		\$ 80,000.00	\$ 79,602.53	5586.9	99.5%	1,061.37	\$ 397.47
OCT '18	6.4324	6432400	6432.4		\$ 80,000.00	\$ 82,403.88	6432.4	103%	1,098.72	\$ (2,403.88)
NOV '18					\$ 80,000.00			0%	-	
DEC '18					\$ 80,000.00			0%	-	
				GOAL	\$ 960,000.00	\$ 795,100.79	% OF GOAL			
				BILLED TO DATE	\$ 795,100.79		83%			
	54,6436			REMAINING NEEDED FOR BUDGET	\$ 164,899.21			99.4%	1095	\$ 4,899.21

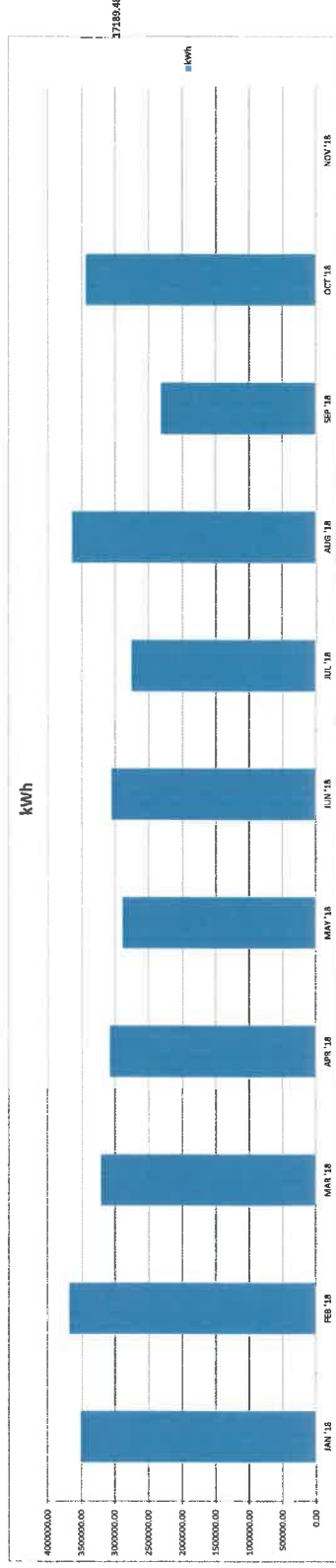
GALLONS OF WATER PUMPED

JAN '18
FEB '18
MAR '18
APR '18
MAY '18
JUNE '18
JULY '18
AUG '18
SEPT '18
OCT '18
NOV '18
DEC '18



Water & Light
Billed Electric kWh Report - 2018

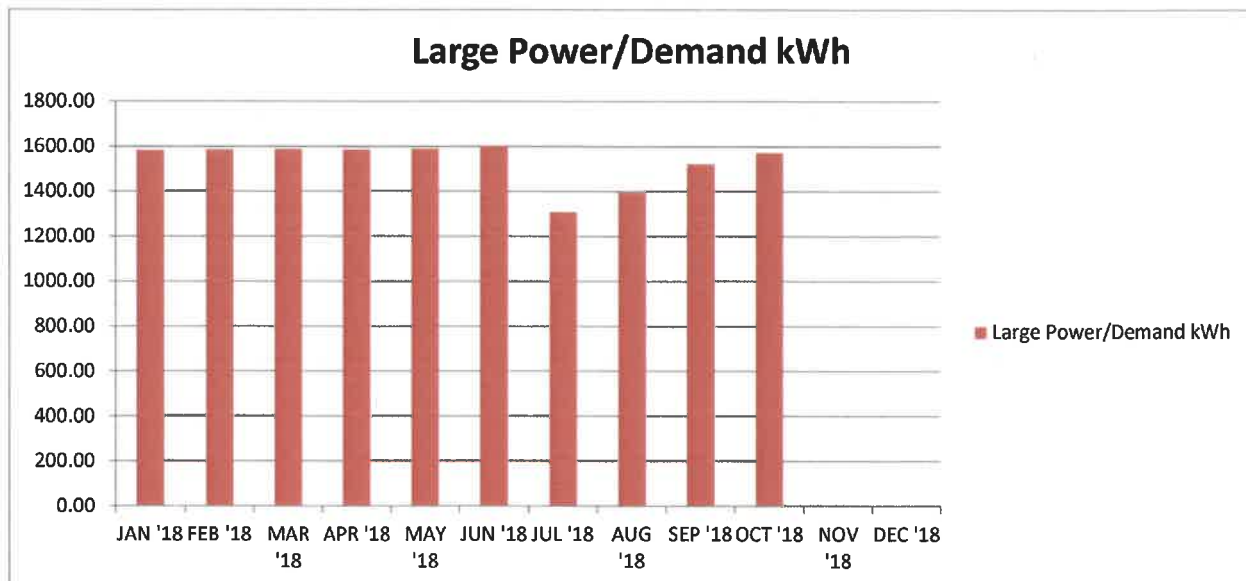
MONTH:	RES/COM KWH	DEM. BILLED	RES/COM BILL	CONSUMER'S	MPPA	MISO	ATC	CEC-HYDRO	2018 PAID	2017 PAID	2016 PAID	2015 PD:	SAVED:
JAN '18	3518665.00	\$ 14,129.91	\$ 196,778.46	\$ 107,467.68	\$ 28.53	\$ 3,833.06	\$ 13,133.98	\$ 5,064.28	\$ 129,527.53	\$ 120,334.74	\$ 103,229.84	\$ 146,688.48	\$ (9,192.79)
FEB '18	3685214.00	\$ 14,129.91	\$ 205,164.19	\$ 97,421.58	\$ 47.85	\$ 4,164.50	\$ 13,133.98	\$ 5,079.63	\$ 119,847.55	\$ 111,398.64	\$ 102,655.98	\$ 168,324.53	\$ (8,448.91)
MAR '18	3210808.00	\$ 14,129.91	\$ 173,342.28	\$ 43,309.98	\$ 74.73	\$ 3,606.20	\$ 10,445.98	\$ 5,028.01	\$ 62,464.90	\$ 114,411.84	\$ 130,790.97	\$ 135,195.29	\$ 51,946.94
APR '18	3076108.00	\$ 14,129.91	\$ 170,586.50	\$ 86,040.96	\$ 510.99	\$ 3,002.14	\$ 12,237.98	\$ 5,164.08	\$ 106,956.15	\$ 106,494.00	\$ 98,265.91	\$ 114,707.13	\$ (442.13)
MAY '18	2889771.00	\$ 14,129.91	\$ 155,995.47	\$ 79,099.98	\$ 260.13	\$ 2,480.88	\$ 12,237.98	\$ 5,259.07	\$ 98,338.04	\$ 98,979.16	\$ 121,856.40	\$ 145,089.13	
JUN '18	3050491.00	\$ 14,205.68	\$ 160,772.48	\$ 63,573.76	\$ 136.82	\$ 2,023.17	\$ 12,237.98	\$ 5,278.82	\$ 82,250.55	\$ 103,696.18	\$ 106,919.67	\$ 121,802.87	
JUL '18	2755902.00	\$ 12,369.20	\$ 162,297.41	\$ 69,584.39	\$ 98.98	\$ 3,543.06	\$ 12,237.98	\$ 5,292.18	\$ 90,756.39	\$ 102,915.30	\$ 60,546.96	\$ 74,453.89	
AUG '18	3642325.00	\$ 12,981.26	\$ 184,720.47	\$ 95,012.40	\$ 101.26	\$ 2,915.81	\$ 12,237.98	\$ 5,211.90	\$ 115,480.83	\$ 102,013.56	\$ 118,956.76	\$ 55,814.19	
SEP '18	2511374.00	\$ 13,989.20	\$ 121,632.72	\$ 64,776.80			\$ 12,237.98	\$ 5,177.30	\$ 82,226.68	\$ 98,677.29	\$ 115,892.05	\$ 93,525.67	
OCT '18	3432911.00	\$ 14,590.32	\$ 150,764.24	\$ 63,885.96	\$ 31.99		\$ 12,237.98		\$ 81,333.23	\$ 97,767.67	\$ 107,256.72	\$ 122,946.54	
NOV '18										\$ 114,041.05	\$ 109,927.00	\$ 64,483.12	
DEC '18										\$ 123,757.90	\$ 118,349.60	\$ 157,862.67	
	31575569.00	\$ 138,775.21	\$ 1,661,554.22	\$ 769,173.49	\$ 1,291.29	\$ 25,568.82	\$ 122,379.80	\$ 51,766.65	\$ 970,182.05	\$ 1,294,437.93	\$ 1,288,637.86	\$ 1,400,903.51	\$ 33,843.09



Water & Light

Electric Demand Report Large Power/Industrial 2018

MONTH:	LG POWER/INDUSTRIAL	BILLED AMOUNT
DEC '17	1567.34	\$ 13,938.69
JAN '18	1583.90	\$ 14,129.91
FEB '18	1586.82	\$ 14,129.91
MAR '18	1587.94	\$ 14,129.91
APR '18	1587.14	\$ 14,129.91
MAY '18	1588.74	\$ 14,129.91
JUN '18	1600.38	\$ 14,205.68
JUL '18	1308.82	\$ 12,369.20
AUG '18	1397.07	\$ 12,981.26
SEP '18	1522.24	\$ 13,989.20
OCT '18	1573.00	\$ 14,580.32
NOV '18		
DEC '18		





RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



C. HEIDI GRETHUR
DIRECTOR

October 24, 2018

VIA E-MAIL

NEWBERRY WATER & LIGHT
302 EAST MCMILLAN AVENUE
NEWBERRY, MICHIGAN 49868

WSSN: 04720

Dear Water Supply Owner/Operator:

SUBJECT: NEWBERRY WATER & LIGHT
Per- and Polyfluoroalkyl Substances (PFAS)

As you may be aware, the Michigan PFAS Action Response Team (MPART) has undertaken a proactive effort to investigate sources and locations of PFAS contamination in Michigan, to protect our drinking water, and to inform the public about PFAS. This involves the work of ten state departments, in coordination with local and federal officials.

One vital piece of this effort is the ongoing collaboration between the Michigan Department of Environmental Quality (MDEQ) and our water supply partners. It is through your generous participation that we are able to set and achieve our goal: to proactively test all community water supplies and schools that are classified as non-transient non-community water supplies for PFAS contamination. Once complete, this study will be an invaluable tool in determining the extent of PFAS in Michigan's drinking water, and empowering the MPART in the pursuit of their mission. We thank you for your continuing partnership, collaboration, and dedication to the residents of our great state.

This letter is intended to provide the results of PFAS analyses in samples collected from the NEWBERRY WATER & LIGHT, WSSN # 04720 (water supply) on the date(s) indicated below.

The table below summarizes the sampling results. A copy of the laboratory report is enclosed for your review. The analyses of these samples reported less than 10 parts per trillion (ppt) for perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). Your water supply may have returned results greater than non-detect (ND) for the total amount of PFAS analytes tested for. An ND result means the analyte was not detected. Neither the MDEQ nor the United States Environmental Protection Agency (USEPA) have any guidance values for these other analytes at this time. If additional guidance and/or comparison values are developed for these or other PFAS chemicals in the future, we may reevaluate this water supply.

October 24, 2018

Date Collected	Sampling Location	PFOS + PFOA (ppt)	LHA (ppt) PFOS + PFOA	Total Tested PFAS (ppt)
8/17/2018	TP001	ND	70	ND
8/17/2018	TP002	ND	70	ND

ND – The parameter was not detected based on the laboratory's analytical report.
See Official lab results for test method used.

Currently, there is no regulatory drinking water standard for any of the PFAS chemicals. However, in May 2016 the USEPA established a non-regulatory Lifetime Health Advisory (LHA) for two of these chemicals, PFOS and PFOA. The LHA for PFOS and PFOA is 70 ppt combined, or individually if only one of them is present. The USEPA recommends that this LHA applies to both short-term (i.e., weeks to months) scenarios during pregnancy and lactation, as well as to lifetime-exposure scenarios. The LHA is the level, or amount, below which no harm is expected from these chemicals. The Michigan Department of Health and Human Services (MDHHS), as well as the MDEQ, have used this LHA of 70 ppt to inform decisions on actions that should be taken or are recommended to reduce exposure and prevent increased risk to public health from these PFAS contaminants. The USEPA has not set health advisory levels for the other PFAS compounds because not enough is known about them.

Additional information on the health effects of PFAS can be found on the Agency for Toxic Substances and Disease Registry (ATSDR) website listed at the end of this correspondence.

The concentrations of PFOS and PFOA in these samples are well below the USEPA LHA of 70 ppt and are not expected to result in adverse health effects as long as the concentrations are shown to remain below the LHA over time.

Because of the detection of low levels found in the water supply, we have the following recommendations for your consideration. These recommendations are essentially the same actions we have advised public water systems to follow for the past 30-plus years when a new contaminant has been confirmed as present in their drinking water.

1. Inform the public of these sample results through posting on your website or other means. The MDEQ, in collaboration with the MDHHS, has developed a toolkit containing communication templates to help notify the consumers of your water supply on the presence of PFAS in the drinking water and the response measures that are being initiated. This is a resource available to you if you choose and can be modified to fit your needs. The toolkit is available at www.michigan.gov/pfasresponse and click on "visit news and education."
2. Please continue with your regularly scheduled monitoring. The MDEQ recommends you also continue monitoring for PFAS on an annual basis to demonstrate the concentrations are consistently and reliably below any existing LHA.

These recommendations are based on the best available and most current information and may change depending on additional information related to site conditions; the availability of new data; or other new information as it becomes available. We may recommend further action at that time.

October 24, 2018

As part of the MDEQ's proactive statewide sampling initiative, the results of this sampling will be posted online on the MPART website within 48 hours of this notification. The results can be found online by going to the MPART website address listed below, and by clicking on "Michigan PFAS Sites," and scrolling down and selecting "Public Water Supply Information." We recommend you inform your consumers as soon as possible. If you need assistance, please contact me.

For information on PFOS, PFOA, and other PFAS, including possible health outcomes, you may visit these websites:

- **State of Michigan PFAS Action Response Team (MPART)** website serving as the main resource for public information on PFAS contamination in Michigan:
www.michigan.gov/pfasresponse
- **United States Environmental Protection Agency (USEPA)** website including basic information, USEPA actions, and links to informational resources:
www.epa.gov/pfas
- **Agency for Toxic Substances and Disease Registry (ATSDR)** website including health information, exposure, and links to additional resources:
www.atsdr.cdc.gov/pfas

Thank you once again for your continued collaboration with this investigation. The ongoing partnership between the MDEQ and Michigan's public water supplies plays an integral role in the state's continued efforts to ascertain and address the incidence of PFAS in drinking water for Michiganders.

If you have any questions concerning this sampling, please contact me at the telephone number below; by email at DEQ-PFAS-DrinkingWater@michigan.gov; or by mail at DEQ-DWMAD, P.O. Box 30817, Lansing, Michigan 48909-8311.

Sincerely,

Lois Elliott Graham

Lois Elliott Graham, R.S., M.S.A.
Drinking Water and Municipal Assistance Division
810-730-8674

Enclosure

cc: Mr. Nicholas Derusha, Luce-Mackinac-Alger-Schoolcraft District Health Department
Mr. Steven Crider, Supervisor, Drinking Water Unit, MDHHS
Mr. Chuck Thomas, MDEQ



October 12, 2018

Vista Work Order No. 1802584

Ms. Maya Murshak
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Murshak,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on August 21, 2018 under your Project Name 'MDEQ State Municipal Sampling'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in cursive script that reads "Martha Maier".

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1802584

Case Narrative

Sample Condition on Receipt:

Two drinking water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 537, Rev. 1.1

The samples were extracted and analyzed for a selected list of 14 PFAS using EPA Method 537, Rev. 1.1. The results have been reported following the conventions specified by the Michigan Department of Environmental Quality.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

Two Laboratory Fortified Blanks (LFB/LFBD) and a Laboratory Reagent Blank (LRB) were extracted and analyzed with the preparation batch. No analytes were detected in the Laboratory Reagent Blank. The LFB/LFBD recoveries were within the method acceptance criteria.

The surrogate recoveries for all QC and field samples were within the acceptance criteria.

Table of Contents

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Certifications	11
Sample Receipt.	14

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1802584-01	GWEF1808171330GSC	17-Aug-18 13:30	21-Aug-18 09:55	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1802584-02	GWEF1808171350GSC	17-Aug-18 13:50	21-Aug-18 09:55	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS



Sample ID: LRB					EPA Method 537				
Client Data Name: Merit Laboratories, Inc. Matrix: Aqueous Project: MDEQ State Municipal Sampling					Laboratory Data Lab Sample: B8H0181-BLK1 Column: BEH C18				
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFHxA	307-24-4	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFHpA	375-85-9	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFHxS	355-46-4	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFOA	335-67-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFNA	375-95-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFOS	1763-23-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFDA	335-76-2	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
MeFOSAA	2355-31-9	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
EtFOSAA	2991-50-6	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFUnA	2058-94-8	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFDoA	307-55-1	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFTtDA	72629-94-8	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
PFTeDA	376-06-7	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	89	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
13C2-PFDA	SURR	89	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1
d5-EtFOSAA	SURR	96	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 14:27	1

RL - Reporting limit

Results reported to RL.
Reporting convention specified by MI DEQ.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.



Sample ID: LFB

EPA Method 537

Name:	Merit Laboratories, Inc.	Lab Sample:	B8H0181-BS1/B8H0181-BSD1	Date Extracted:	24-Aug-18
Project:	MDEQ State Municipal Sampling	QC Batch:	B8H0181	Column:	BEH C18
Matrix:	Aqueous	Sample Size:	0.25/0.25 L		

Analyte	CAS Number	LFB (ng/L)	LFB Spike Amt	LFB % Rec	LFB Quals	LFBD (ng/L)	LFBD Spike Amt	LFBD % Rec	RPD	LFBD Quals	%Rec Limits	RPD Limits	LFB Analyzed	LFB Dil	LFBD Analyzed	LFBD Dil
PFBS	375-73-5	65	71	92		60	71	85	8		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFHxA	307-24-4	64	80	80		66	80	82	3		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFHpA	375-85-9	62	80	77		65	80	81	5		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFHxS	355-46-4	63	73	87		59	73	81	7		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFOA	335-67-1	67	80	84		68	80	86	2		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFNA	375-95-1	69	80	86		70	80	88	3		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFOS	1763-23-1	72	74	97		71	74	96	1		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFDA	335-76-2	61	80	76		64	80	80	4		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
MeFOSAA	2355-31-9	71	80	89		75	80	93	5		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
EtFOSAA	2991-50-6	56	80	70		65	80	81	15		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFUnA	2058-94-8	66	80	82		68	80	86	4		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFDoA	307-55-1	63	80	79		67	80	83	5		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFTxDA	72629-94-8	62	80	77		63	80	79	3		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
PFTeDA	376-06-7	62	80	77		62	80	78	1		70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
Labeled Standards	Type			LFB % Rec	LFB Quals			LFBD % Rec		LFBD Quals	Limits		LFB Analyzed	LFB Dil	LFBD Analyzed	LFBD Dil
I3C2-PFHxA	SURR			91				84			70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
I3C2-PFDA	SURR			95				96			70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1
d5-EtFOSAA	SURR			82				96			70-130		12-Sep-18 14:01	1	12-Sep-18 14:14	1

Data Reported per Michigan DEQ instructions.



Sample ID: GWEF1808171330GSC

EPA Method 537

Client Data				Laboratory Data					
Name:	Merit Laboratories, Inc.	Matrix:	Drinking Water	Lab Sample:	1802584-01	Column:	BEH C18		
Project:	MDEQ State Municipal Sampling	Date Collected:	17-Aug-18 13:30	Date Received:	21-Aug-18 09:55				
Location:	NEWBRYWL04720TP002								
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFHxA	307-24-4	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFHpA	375-85-9	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFHxS	355-46-4	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFOA	335-67-1	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFNA	375-95-1	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFOS	1763-23-1	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFDA	335-76-2	ND	2		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
MeFOSAA	2355-31-9	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
EtFOSAA	2991-50-6	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFUnA	2058-94-8	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFDaA	307-55-1	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFTeDA	72629-94-8	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
PFTeDA	376-06-7	ND	4		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	86	70 - 130		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
13C2-PFDA	SURR	92	70 - 130		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1
d5-EtFOSAA	SURR	75	70 - 130		B8H0181	24-Aug-18	0.26 L	12-Sep-18 16:26	1

RL - Reporting limit

Results reported to RL.

Reporting convention specified by MI DEQ.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.



Sample ID: GWEF1808171350GSC

EPA Method 537

Client Data				Laboratory Data						
Name:	Merit Laboratories, Inc.	Matrix:	Drinking Water	Lab Sample:	1802584-02	Column:	BEH C18			
Project:	MDEQ State Municipal Sampling	Date Collected:	17-Aug-18 13:50	Date Received:	21-Aug-18 09:55					
Location:	NEWBRYWL04720TP001									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBS	375-73-5	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFHxA	307-24-4	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFHpA	375-85-9	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFHxS	355-46-4	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFOA	335-67-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFNA	375-95-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFOS	1763-23-1	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFDA	335-76-2	ND	2		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
MeFOSAA	2355-31-9	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
EtFOSAA	2991-50-6	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFUnA	2058-94-8	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFDaA	307-55-1	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFTeDA	72629-94-8	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
PFTeDA	376-06-7	ND	4		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	SURR	84	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
13C2-PFDA	SURR	88	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	
d5-EtFOSAA	SURR	82	70 - 130		B8H0181	24-Aug-18	0.25 L	12-Sep-18 17:04	1	

RL - Reporting limit

Results reported to RL.

Reporting convention specified by MI DEQ.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limits of Detection
LOQ	Limits of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
Q	Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	18-008-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-009
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-18-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

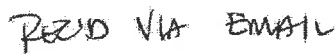
MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



For Laboratory Use Only

Work Order #: 1802584 Temp: 0.7

Storage ID: INR-2 Storage Secured: Yes ☒ No ☐

Sampler: GARTH COUSINEAU
(name)

TAT Standard: ☒ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Specify:

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
				08/24/18	14:25

[illegible]

**SEND
DOCUMENTATION
AND RESULTS TO:**

Name: MIKE JURY

Company: MDEQ

Address: 401 KETCHUM ST. SUITE B

City: BAY CITY State: MI Zip: 48708

Phone: 989-894-6255 Fax: 989-891-9237

Email: donin.bogdan@eecom.com

Bottle Preservation Type: T = Thiosulfate,
TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other.



Sample Log in Checklist

1 of 1

WO#: 1802584

SDG#: NA

TAT: std

Section 1: Container Receipt					
Delivered By: ☒ FedEx ☐ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other					
Number of Containers	Arrival Date	Arrival time	Received By/Date	LR-SCL Initiated By	
1	08/21/18	0955	CRB 8/21/18	CRB 8/21/18	
Section 2: Sample Receipt Condition and Initial Storage					
Container Condition	Chain of Custody	Preservation Type	Temperature	Storage Location	Initials/Date
☒ Shipping container intact ☐ Custody Seals present ☐ Custody seals intact	☒ COC present ☒ Relinquished by section complete	☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ Other	Thermometer ID: IR-4 ☐ Probe used Temp (uncorrected): <u>0.8</u> °C Temp (corrected): <u>0.7</u> °C ☐ Anomaly form required	☒ WR2 ☐ WF2 ☐ NA	
Airbill/Trk # <u>7729 9013 7295</u>					
Shipping container ☒ Vista ☐ Client ☒ Retain ☐ Return ☐ Dispose			By Initials/Date:		
Section 3: Sample Log In					
<u>ke 8/21/18 1440</u>			YES	NO	
			Initials/Date	Initials/Date	
COC identifies sample ID, date and time of collection, collector's name			<u>KE</u>	☐ Anomaly form required	
COC identifies sample matrix and test method			<u>KE</u>	☐ Anomaly form required	
All samples present and accounted for on COC			<u>KE</u>	☐ Anomaly form required	
Sample IDs are legible on COC and Bottles			<u>KE</u>	☐ Anomaly form required	
Samples conform to the description on the COC			<u>KE</u>	☐ Anomaly form required	
Samples are within hold, intact and suitable for testing			<u>KE</u>	☐ Anomaly form required	
Preservation documented as required: ☐ Na ₂ S ₂ O ₃ ☒ Trizma ☐ NA			<u>KE</u>		
Samples stored ☒ WR2 Shelf: <u>A3 ET</u> ☐ WF2 Shelf: _____ ☐ R1			By Initials/Date: <u>LT</u>		
Section 4: Comments					Initials/Date
☐ Sample Inventory Form Attached					