

# **City of Flint, Michigan**

*Third Floor, City Hall  
1101 S. Saginaw Street  
Flint, Michigan 48502  
[www.cityofflint.com](http://www.cityofflint.com)*



## **Meeting Agenda - Final**

**Monday, September 13, 2021**

**5:30 PM**

**ELECTRONIC PUBLIC MEETING**

### **CITY COUNCIL**

*Kate Fields, President, Ward 4  
Maurice D. Davis, Vice President, Ward 2*

*Eric Mays, Ward 1  
Jerri Winfrey-Carter, Ward 5  
Monica Galloway, Ward 7*

*Santino J. Guerra, Ward 3  
Herbert J. Winfrey, Ward 6  
Allan Griggs, Ward 8*

*Eva L. Worthing, Ward 9*

*Inez M. Brown, City Clerk*

*Davina Donahue, Deputy Clerk*

**SPECIAL PUBLIC NOTICE -- ELECTRONIC PUBLIC MEETING****PUBLIC NOTICE****FLINT CITY COUNCIL ELECTRONIC PUBLIC MEETING**

On Friday, October 5, 2020, the Michigan Supreme Court (MSC) issued an order declaring that the Emergency Powers of Governor (EPG) Act as an unconstitutional delegation of legislative authority, which was the primary authority relied on by Governor Whitmer for her COVID-19 related executive orders. Subsequently, Governor Whitmer requested that the MSC clarify that their order does not go into effect until October 30, 2020. On Monday October 12, 2020, the Michigan Supreme Court rejected Governor Whitmer's request to delay the effect of its decision to strike down the EPG. On Tuesday, October 13, 2020, Senate Bill 1108 passed, amending the Open Meetings Act to allow municipalities to hold electronic meetings. On Friday, October 16, 2020, Governor Whitmer signed into law Senate Bill 1108 amending the Open Meetings Act. Subsequently, on December 22, 2020, Public Act 267 of 1976 was amended through Senate Bill 1246 extending the electronic meetings with no reason through March 31, 2021. The act also allows that after March 31, 2021, electronic meetings may be held if a local state of emergency was declared. On March 23, 2020, the Flint City Council extended Mayor Neeley's declaration of emergency indefinitely due to the COVID-19 pandemic. Therefore, the following meeting will be held electronically:

**Flint City Council Meeting****Monday, September 13, 2021, at 5:30 p.m.**

The public and media may listen to the meeting online by live stream at <https://www.youtube.com/c/FlintCityCouncilMeetings> or through Start Meeting Solution by dialing (617) 944-8177. If unable to call in, please dial (206) 451-6011.

1. In order to speak during the PUBLIC HEARING PERIOD of the meeting by telephone, participants will also call (617) 944-8177 (if unable to call in, please dial (206) 451-6011):
  - a. All callers will be queued and muted until the Public Hearing portion of the agenda;
  - b. Public speakers will be unmuted in order and asked if they wish to address the City Council on THE SUBJECT OF THE PUBLIC HEARING SPECIFICALLY;
  - c. Public speakers should state and spell their name for the record and will be allowed ten (10) minutes to speak during the public hearing;
  - d. The speaker will be returned to mute after the 10 minutes have expired.
2. In order to speak during the PUBLIC SPEAKING PERIOD of the meeting by telephone, participants will also call (617) 944-8177. All callers will be queued and muted until the Public Speaking portion of the agenda;
  - a. Public speakers will be unmuted in order and asked if they wish to address the City Council ON ANY SUBJECT;
  - b. Public speakers should state and spell their name for the record and will be allowed three (3) minutes for public speaking;
  - c. The speaker will be returned to mute after the 3 minutes have expired;
  - d. After the telephonic public speakers are completed, emailed public comments will be read by the City Clerk. All emailed public comments will be timed for 3 minutes;
  - e. Per Rules Governing Meetings of the Council (Rule 7.1 VII), there will only be one speaking opportunity per speaker.

Consequently, public participants who call in and speak during the public speaking period of the meeting WILL NOT have written comments as submitted read by the City Clerk.

3. The public may send public comments by email to [CouncilPublicComment@cityofflint.com](mailto:CouncilPublicComment@cityofflint.com) no later than 10 minutes prior to the meeting start time of 5:30 p.m.

4. Persons with disabilities may participate in the meeting by the above-mentioned means or by emailing a request for an accommodation to [CouncilPublicComment@cityofflint.com](mailto:CouncilPublicComment@cityofflint.com), with the subject line Request for Accommodation, or by contacting the City Clerk at (810) 766-7418 to request

accommodation - including but not limited to interpreters.

If there are any questions concerning this notice, please direct them to City Council office at (810) 766-7418.

**CALL TO ORDER****ROLL CALL****MEMBER REMOTE ANNOUNCEMENT**

*Pursuant to the newly revised Open Meetings Act, each Council member shall state that they are attending the meeting remotely and shall state where he or she is physically located (county or city and state).*

**MEMBER CONTACT INFORMATION**

*Eric Mays - (810) 922-4860; Maurice Davis - mdavis@cityofflint.com; Santino Guerra - sguerra@cityofflint.com; Kate Fields - kfields@cityofflint.com; Jerri Winfrey-Carter - jwinfrey-carter@cityofflint.com; Herbert Winfrey - (810) 691-7463; Monica Galloway - mgalloway@cityofflint.com; Allan Griggs - agriggs@cityofflint.com; Eva Worthing - eworthing@cityofflint.com.*

**PROCEDURES ON CONDUCTING ELECTRONIC MEETINGS**

*All boards and commissions must adhere to all laws established under the Michigan Compiled Laws and in accordance with the revisions to the Open Meetings Act adopted in Senate Bill 1246, as passed on December 17, 2020, and signed into law on December 22, 2020, and subsequent amendments that may be adopted.*

**READING OF DISORDERLY PERSONS CITY CODE SUBSECTION**

*Any person that persists in disrupting this meeting will be in violation of Flint City Code Section 31-10, Disorderly Conduct, Assault and Battery, and Disorderly Persons, and will be subject to arrest for a misdemeanor. Any person who prevents the peaceful and orderly conduct of any meeting will be given one warning. If they persist in disrupting the meeting, that individual will be subject to arrest. Violators shall be removed from meetings.*

**PLEDGE OF ALLEGIANCE****PRAYER OR BLESSING****REQUESTS FOR CHANGES AND/OR ADDITIONS TO AGENDA**

*Council shall vote to adopt any amended agenda.*

**PRESENTATION OF MINUTES**

210440            Summary Minutes/Flint City Council/June 28, 2021

Summary Minutes of the regular Flint City Council ELECTRONIC PUBLIC MEETING held Monday, June 28, 2021, at 8:33 p.m.

**SPECIAL ORDERS**

210428 Special Order/Attorney Thomas Michael Donnellan

A Special Order to honor Attorney Thomas Michael Donnellan, who passed away on September 3, 2021.

## **PUBLIC HEARINGS**

210391.6 Ordinance 201391

A Public Hearing to amend Chapter 35 (Personnel) of the Code of the City of Flint, Article VI (Personnel Code), Section 35-112.1 (Adoption - Job Description and Qualifications Deputy Director of Community and Economic Development), by repealing Section 35-112.1.

210392.6 Ordinance 210392

A Public Hearing to amend the Chapter 35 (Personnel) of the City of Flint, Article VI (Personnel Code), by repealing Section 35-112.6 (Adoption - Job Description and Qualifications Deputy Director of Department of Public Works).

## **PUBLIC SPEAKING**

*Per the amended Rules Governing Meetings of the Council (as adopted by the City Council on Monday, June 12, 2017), three (3) minutes per speaker. Only one speaking opportunity per speaker.*

## **COUNCIL RESPONSE**

*Per the amended Rules Governing Meetings of the Council (as adopted by the City Council on Monday, June 12, 2017), Councilpersons may respond to any public speaker, but only one response and only when all public speakers have been heard. Individual council response is limited to two minutes.*

## **PETITIONS AND UNOFFICIAL COMMUNICATIONS**

210430 Notice/United States Bankruptcy Court/Southern Division-New York/Fifth Amended Chapter 11 Plan Filed by Debtors Purdue Pharma L.P.

Notice issued June 3, 2021, re: Case No. 19-23649 (RDD). The U.S. Bankruptcy Court for the Southern District of New York entered a "Disclosure Statement Order" authorizing Purdue Pharma L.P., and its affiliated debtors and debtors in possession to solicit acceptances for the Fifth Amended Joint Chapter 11 Plan of Reorganization.

210431 Agenda and Attachments/Karegnondi Water Authority (KWA) Meeting

Communication received August 9, 2021, re: An agenda and attachments for the Karegnondi Water Authority (KWA) Meeting to be held at 10 a.m., Monday, August 16, 2021, at the Genesee County Water Treatment Plant, 4414 Stanley Road, Columbiaville, MI 48421.

- 210432** Notice of Public Hearing/Michigan Public Service Commission (MPSC)
- Notice of Public Hearing received August 11, 2021, re: Michigan Public Service Commission (MPSC) notice of hearing for the gas customers of Consumers Energy Co., Case No. U-21086, to be held August 23, 2021, at 10 a.m., by Video/Teleconferencing.
- 210433** Financial Report/Karegnondi Water Authority (KWA)
- Communication received August 17, 2021, re: The Karegnondi Water Authority (KWA) July 2021 Financial Report.
- 210434** Public Notice/Genesee County Metropolitan Planning Commission (GCMPC)/Transportation System Management Subcommittee
- Communication received August 19, 2021, from the Genesee County Metropolitan Planning Commission (GCMPC), re: The Transportation System Management Subcommittee will meet at 2 p.m. August 26, 2021, in the GCMPC Conference Room, 1101 Beach Street, Room 223, Flint.
- 210435** Genesee County/Permanent Household Hazardous Waste Drop-Off Facility
- Communication received August 29, 2021, from Genesee County, re: Genesee County is going to develop a permanent household hazardous waste drop-off facility for county residents.
- 210436** Proof of Service and Petition/Michigan Tax Tribunal/Ryder Truck Rental, Inc. v City of Flint/MTT Docket No. 21-002260
- Communication received August 17, 2021, re: Proof of Service and Petition filed with the Michigan Tax Tribunal by Ryder Truck Rental, Inc. regarding Parcel No. 41-05-226-003.

### **COMMUNICATIONS (From Mayor and other City Officials)**

- 210437** Department of Public Works (DPW)/Press Releases/Update/Secondary Water Pipeline
- Press Releases dated August 17, 2021, and August 25, 2021, from DPW, re: Updates on the city's secondary water pipeline.
- 210438** City of Flint/Press Releases/Biweekly Public Safety Update
- Press Releases dated August 23, 2021, and September 9, 2021, from the City of Flint, re: Biweekly updates on public safety.
- 210439** Traffic Engineering/Closure Permits
- Sidewalk, Lane and Street Closure permits (30) dated August and September

2021, for requested activities/events, with noted responsibility for the placement of the required traffic control devices, and/or personnel, for the protection of traffic and event participants.

## **APPOINTMENTS**

**210157** Appointment/Water System Advisory Council/Nancy Love

Resolution resolving that Mayor Neeley hereby appoints Nancy Love (1351 Beal Avenue, Ann Arbor, MI 48109) to serve on the Water System Advisory Council. [NOTE: Pursuant to the State of Michigan's administrative rules, water suppliers serving a population of 50,000 or more, shall create a Water System Advisory Council. The purpose of the Council is to improve transparency in the City of Flint community by developing materials and advising the water system on public awareness and education efforts.]

**210229** Appointment/Water System Advisory Council/Shawn P. McElmurry

Resolution resolving that Mayor Neeley hereby appoints Shawn P. McElmurry (2153 Engineering Building, 5050 Anthony Wayne Drive, Detroit, MI 48202) to serve on the Water System Advisory Council. [NOTE: Pursuant to the State of Michigan's administrative rules, water suppliers serving a population of 50,000 or more, shall create a Water System Advisory Council. The purpose of the Council is to improve transparency in the City of Flint community by developing materials and advising the water system on public awareness and education efforts.]

## **APPOINTMENTS (May Be Referred from Special Affairs)**

**210398** Mayoral Appointment/Chief Financial Officer/Robert Widigan

Resolution resolving that the Flint City Council approves the recommendation by Mayor Sheldon Neeley to appoint Robert Widigan as Chief Financial Officer [at an hourly compensation rate of \$64.90 per hour (\$135,000.00 annually).] [General Fund Salary and Wages Acct. No. 101-191.100-703.000 = \$91,967.90 and LCSM-17-FRTA = \$43,032.10.] [NOTE: The difference in compensation between the Interim Chief Financial Officer and Chief Financial Officer is retroactive to August 16, 2021.]

## **RESOLUTIONS**

**210402** Grant Acceptance/Budget Amendment/Transfer of Funds/Charles Stewart Mott Foundation Grant/Completion/Comprehensive Financial Report

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to accept the grant funds set forth in the grant agreement of C.S. Mott Grant #G-2021-08616, in the amount of \$250,000.00, to appropriate revenue and expenditure amounts, and to make the grant funds available from June 1, 2021, through May 31, 2022. [NOTE: The Charles Stewart Mott Foundation has awarded a grant to the City of Flint for completion of the Annual Comprehensive

Financial Report/Audit Support.]

**210413** Contract/Vulcan Signs/Traffic Signs

Resolution resolving that the Department of Purchases and Supplies, upon City Council's approval, is hereby authorized to enter into a contract with Vulcan Signs for traffic signs, in an amount NOT-TO-EXCEED \$80,000.00 for FY2022, and \$80,000.00 for FY2023, pending budget adoption, as requested by DPW/Transportation [Major Street Fund Acct. No. 202-443.201-752.000 = \$45,000.00 and Local Street Fund Acct. No. 203-443.201-752.000 = \$35,000.00\$45,000.00.]

**210414** SF Mobile-Vision, Inc./Seventeen (17) Police Cameras

Resolution authorizing the proper city officials, upon City Council's approval, to purchase seventeen (17) police cameras from SF Mobile-Vision, Inc., to be installed in police cruisers, as requested by Police, in an amount NOT-TO-EXCEED \$101,845.00 [Police Vehicle Technology Grant PCSM-PVT21 Acct. No. 296-315.705-977.000 = \$94,080.00 and General Fund Acct. No. 101-305.203-977.000 = \$7,765.00.]

**210415** Contract/Lasercom LLC/Printing, Sorting and Mailing/Water Bills/Shut Off Notices/Property Tax/Postage

Resolution resolving that the proper city officials, upon City Council's approval, are hereby authorized to enter into the third and final year of the contract with Lasercom LLC for postage, printing, sorting and mailing of water bills, shut-off notices and property tax bills, as requested by Customer Service, in an amount NOT-TO-EXCEED \$149,090.00 [General Fund Acct. No. 101-253.202-900.000 = \$15,765.00; Acct. No. 101-253.203-900.000 = \$15,765.00; Acct. No. 101-253.202-900.000 = \$7,560.00; Acct. No. 101-253.200-902.000 (postage as needed); Acct. No. 101-253.202-902.000 (postage as needed); and Acct. No. 101-253.203-902.000 (postage as needed).]

**210416** McNaughton-McKay Electric Co./Electrical & Lighting Supplies & Parts

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to enter into the second year of the agreements with McNaughton-McKay Electric Co., for electrical and lighting supplies and parts, including Allen Bradley Modules, as requested by various departments, in an amount NOT-TO-EXCEED \$240,100.00 [Water Fund Acct. No. 591-545.201-752.000 = \$18,000.00; Sewer Fund Acct. No. 590-550.200-775.000 = \$17,000.00; Sewer Fund Acct. No. 590-550.202-775.000 = \$67,500.00; Sewer Fund Acct. No. 590-550.202-930.000 = \$35,500.00; Sewer Fund Acct. No. 590-550.100-814.600 = \$10,000.00; [Water Fund Acct. No. 591-540.202-752.000 = \$8,300.00; Sewer Fund Acct. No. 590-540.208-752.000 = \$8,300.00; Major Streets Fund Acct. No. 202-443.201-752.000 = \$45,000.00; General Fund Acct. No. 101-753.200-752.000 = \$30,000.00; and General Fund Acct. No. 101-338.201-752.000 = \$500.00.]

**210417** Contract/William E. Walter/Industrial HVAC Services

Resolution resolving that the proper city officials, upon City Council's approval, are hereby authorized to enter into year two of the three-year contract with William E. Walter for Industrial HVAC services, as requested by DPW, in an annual amount NOT-TO-EXCEED \$224,500.00 [General Fund Repair/Maintenance Fund Acct. No. 101-753.200-930.000 = \$100,000.00; Sewer Fund Professional Services Acct. No. 590-540.100-801.000 = \$7,500.00; Water Fund Professional Services Acct. No. 591-540.100-801.000 = 7,500.00; Oak Business Center Repair/Maintenance Acct. No. 583-735.204-930.000 = \$4,000.00; Sewer Fund Repair/Maintenance Acct. No. 590-550.200-775.000 = \$5,000.00; Sewer Fund Repair/Maintenance Acct. No. 590-550.200-930.000 = \$12,500.00; Sewer Fund Repair/Maintenance Acct. No. 590-550.202-775.000 = \$20,000.00; Sewer Fund Repair/Maintenance Acct. No. 590-550.202-930.000 = \$12,500.00; Water Fund Supplies Acct. No. 591-545.201-752.000 = \$15,500.00; Water Fund Repair/Maintenance Acct. No. 591-545.201-930.000 = \$32,000.00; and Water Fund Professional Services Acct. No. 591-545.201-801.000 = \$8,000.00.]

**210418** CO#1/MDOT Contract No. 20-5358/Job No. 207637CON/Restoration Work/Robert T. Longway Boulevard/From Chavez Drive to East Boulevard Drive/Water Main Installation Work

Resolution resolving that the appropriate city officials are authorized to do all things necessary to enter into change order #1 for MDOT Contract No. 20-5358, Job No. 207637CON, [for the purpose of restoration work along Robert T. Longway Boulevard from Chavez Drive to East Boulevard Drive, along with water main installation work], due to increased water main costs in the amount of \$36,112.00, and a revised overall project cost of \$284,212.00, as requested by Transportation [Water Capital Projects Grant Acct. No. 496-555.000-801.053.]

**210419** CO #2/MDOT Contract No. 19-5152/Michigan Department of Transportation (MDOT)/Construction for Court Street Rehabilitation Storm Sewer Additions

Resolution resolving that the proper city officials, upon City Council's approval, are authorized to enter into change order #2 to MDOT Contract No. 19-5152, Job No. 130647CON, to cover 10 contract modifications, which includes storm sewer replacements, additional water main with valve vaults installations, as well as using more aggregates and asphalt has resulted in extra fees in the amount of \$471,000.00, plus an additional \$10,000.00 for overruns, for a total amount of \$481,000.00, and a revised aggregate of \$4,579,400.00, as requested by Transportation [Water Capital Projects Grant Fund 496-555.000-801.053 = \$300,000.00 and Major Street Fund Acct. No. 202-441.702-801.000 = \$181,000.00.] [NOTE: The project is to rehabilitate Court Street from Crapo Street and Center Road.]

**210420** Budget Amendment/Transfer of Funds/Transportation Department/Department of Public Works/Major & Local Street Funds



Resolution resolving that the appropriate city officials, upon City Council's approval, are hereby authorized to do all things necessary to amend the FY2021-2022 budget of the City of Flint to reflect the changes requested (outlined in the Resolution) to the city's Department of Public Works/Transportation Local and Major Street Funds for a total change of \$8,040,348.00.

**210421**      Budget Amendment/Transfer of Funds/Information Technology/Equipment

Resolution resolving that the appropriate city officials, upon City Council's approval, are hereby authorized to do all things necessary to amend the FY2021-2022 adopted budget of the City of Flint to [transfer \$651,087.00 from the Information Services Fund Balance (636) to IS Equipment Acct. No. 636-228.100-977.000], as requested by Information Technology. [NOTE: Funding for replacement computers and laptops was included in the previous year's budget. However, the work was not done at that time and the money was rolled into the IT Service Fund Balance.]

**210422**      Contract/Dell Marketing LP/Updated Information Technology Hardware

Resolution resolving that the proper city officials, upon City Council's approval, are hereby authorized to enter into a contract with Dell Marketing LP for upgrades to IT computers and equipment, as requested by Information Services, in an amount NOT-TO-EXCEED \$651,087.00 [Information Services Fund Acct. No. 636-228.100-997.000.]

**210425**      Amendment/Settlement Agreement/Flint Water Litigation

Resolution resolving that the Flint City Council approves and consents to amending the Settlement Agreement to allow the McLaren Defendants to remain parties to the Settlement Agreement at a reduced contribution.

## **RESOLUTIONS (May Be Referred from Special Affairs)**

**210429**      Contract/Rehmann Robson, LLC/City of Flint/Audit/FY2021

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to engage the services of Rehmann Robson, LLC, for FY2021 auditing services, in the amount of \$236,000.00, for a total contract price of \$711,000.00, plus out-of-pocket expenses [General Fund City Council Acct. No. 101-101.100-801.000.] [NOTE: The City Council adopted Resolution No. 200258 on June 22, 2020 to enter into a three-year contract with Rehmann Robson, LLC, for a total contract amount of \$701,000.00. On November 23, 2020, the City Council adopted Resolution No. 200479 authorizing an additional \$7,500.00 to cover single audit services. The \$236,000.00 requested this year represents an increase of \$2,500.00 to conform with the Government Financial Officers Association criteria, plus out-of-pocket expenses.]

## **LIQUOR LICENSES**

**INTRODUCTION AND FIRST READING OF ORDINANCES**

- 210427** Amendment/Ordinance/Chapter 18 (Taxation; Funds; Purchasing)/Article I (In General)/Section 18-4.1 (Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons)

An ordinance to amend the Code of the City of Flint by amending Chapter 18, (Taxation; Funds; Purchasing); Article I, (In General); Section 18-4.1, (Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons) shall be amended by adding subsection (GG). [NOTE: The PILOT is for 700 East Court Street Village Low Income Limited Dividend Housing Association, LP. The annual service charge for the class of persons of low and moderate income shall be equal to four (4) percent of the annual shelter rents, exclusive of charges for gas, electricity, heat or other utilities.]

**INTRODUCTION AND FIRST READING OF ORDINANCES (May Be Referred from Special Affairs)**

- 210399** Amendment/Ordinance/Chapter 18 (Taxation; Funds; Purchasing)/Article IV Purchases)/Addition of Section 18-21.14 (Sale of City Personal Property)

An ordinance to amend the Flint City Code of Ordinances by amending Chapter 18, (Taxation; Funds; Purchasing); Article IV, (Purchases), with the addition of Section 18-21.14, (Sale of City Personal Property).

- 210400** Amendment/Ordinance/Chapter 1 (General Provisions)/Addition of Section 1-134.1 (Prohibition on Illegal Use of Controlled Substances by Elected Officials While on City Property or Engaged in City Business)

An ordinance to amend the Ordinances of the City of Flint by amending Chapter 1 (General Provisions), with the addition of Section 1-134.1 (Prohibition on Illegal Use of Controlled Substances by Elected Officials While on City Property or Engaged in City Business).

- 210423** Amendment/Ordinance/Chapter 46 (Utilities)/Article II (Water Supply and Sewage Disposal System)/Division 1 (Generally)/Amending Section 46-17 (Disputed Water Supply and Sewage Disposal Billing; Inspection; Consumer Hearing; Adjustment of Bill)/Adding Section 46-17.1 (Water Payment Assistance Program)

An ordinance to amend Chapter 46 (Utilities), Article II (Water Supply and Sewage Disposal System), Division 1 (Generally), of the Code of the City of Flint by amending Section 46-17 (Disputed Water Supply and Sewage Disposal Billing; Inspection; Consumer Hearing; Adjustment of Bill) with the addition of Section 46-17.1 (Water Payment Assistance Program).

- 210424** Amendment/Ordinance/Chapter 46 (Utilities)/Article II (Water Supply and Sewage Disposal System)/Division 1 (Generally)/Amending Section 46-17 (Disputed Water Supply and Sewage Disposal Billing; Inspection; Consumer Hearing; Adjustment

of Bill)

An ordinance to amend Chapter 46 (Utilities), Article II (Water Supply and Sewage Disposal System), Division 1 (Generally), of the Code of the City of Flint by amending Section 46-17 (Disputed Water Supply and Sewage Disposal Billing; Inspection; Consumer Hearing; Adjustment of Bill) by adding 46-17.1 (Disputed Unpaid Water Bills Left by Tenants or Water Liens from Previous Owners; Consumer Hearing; Adjustment of Bill).

**210426**

Amendment/Ordinance/Chapter 18 (Taxation; Funds; Purchasing)/Article I (In General)/Section 18-4.1 (Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons)

An ordinance to amend the Code of the City of Flint by amending Chapter 18, (Taxation; Funds; Purchasing); Article I, (In General); Section 18-4.1, (Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons) shall be amended by adding subsection (FF). [NOTE: The PILOT is for Clark Commons III, LLC, Limited Dividend Housing Association (LDHA), LLC. The annual service charge for the class of persons of low and moderate income shall be equal to four (4) percent of the annual shelter rents, exclusive of charges for gas, electricity, heat or other utilities.]

## **SECOND READING AND ENACTMENT OF ORDINANCES**

**210391**

Repeal/Amendment/Ordinance/Chapter 35 (Personnel)/Article VI (Personnel Code)/Section 35-112.1 (Adoption - Job Description and Qualifications Deputy Director of Community and Economic Development)

An ordinance to amend Chapter 35 (Personnel) of the Code of the City of Flint by the addition of Article VI (Personnel Code), Section 35-112.1 (Adoption - Job Description and Qualifications Deputy Director of Community and Economic Development), by repealing Section 35-112.1.

**210392**

Repeal/Amendment/Ordinance/Chapter 35 (Personnel)/Article VI (Personnel Code)/Section 35-112.6 (Adoption - Job Description and Qualifications Deputy Director of Department of Public Works)

An ordinance to amend Chapter 35 (Personnel), Article VI (Personnel Code) of the Code of the City of Flint by the addition of Section 35-112.6 (Adoption - Job Description and Qualifications Deputy Director of Department of Public Works), by repealing Section 35-112.6.

## **ADDITIONAL DISCUSSION ITEMS**

## **FINAL COUNCIL COMMENTS**

## **ADJOURNMENT**

# City of Flint, Michigan

*Third Floor, City Hall  
1101 S. Saginaw Street  
Flint, Michigan 48502  
[www.cityofflint.com](http://www.cityofflint.com)*



## Meeting Minutes - Draft

**Monday, June 28, 2021**

**8:33 PM**

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### ELECTRONIC PUBLIC MEETING

### CITY COUNCIL

*Kate Fields, President, Ward 4  
Maurice D. Davis, Vice President, Ward 2*

*Eric Mays, Ward 1  
Jerri Winfrey-Carter, Ward 5  
Monica Galloway, Ward 7*

*Santino J. Guerra, Ward 3  
Herbert J. Winfrey, Ward 6  
Allan Griggs, Ward 8*

*Eva L. Worthing, Ward 9*

*Inez M. Brown, City Clerk*

*Davina Donahue, Deputy Clerk*

## CALL TO ORDER

*Council President Kate Fields called this meeting to order at 8:33 p.m.*

## ROLL CALL

**Present:** Councilperson: Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** Councilperson: Councilperson Griggs

## PLEDGE OF ALLEGIANCE

*Councilperson Jerri Winfrey-Carter led the Pledge of Allegiance.*

## REQUEST FOR CHANGES AND/OR ADDITIONS TO AGENDA

*Councilperson Fields made a motion to postpone Special Orders to the next City Council meeting (7-12-21). The motion passed 8-0. Councilperson Mays made a request for a Special Order on City Hall reopening after action items. The vote was 6-1 (No: Worthing). (Absent: Griggs). (Not on call: Guerra).*

## PRESENTATION OF MINUTES

Summary Minutes/Flint City Council/May 10, 2021

Summary Minutes of the Flint City Council ELECTRONIC PUBLIC MEETING held Monday, May 10, 2021, at 6:44 p.m.

*The motion was to approve 210311 and 210312 with any corrections.*

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Placed on File. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

Summary Minutes/Flint City Council/May 24, 2021

Summary Minutes of the Flint City Council ELECTRONIC PUBLIC MEETING held Monday, May 24, 2021, at 6:41 p.m.

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Placed on File. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

## SPECIAL ORDERS

*The following Special Orders were postponed to the next City Council meeting on 7-12-21.*

Special Order/Discussion/Finance Committee Vice Chair

A Special Order as requested by Councilperson Worthing to discuss the Finance Committee Vice Chair.

Special Order/Special Meeting/\$99 Million/COVID-19 Relief Funds

A Special Order as requested by Councilperson Mays to discuss having a special meeting to talk about the \$99 million in COVID-19 relief funds.

Special Order/Special Orders

A Special Order as requested by Council President Fields to discuss Special Orders.

Special Order/Hatch Act

A Special Order as requested by Council President Fields to discuss the Hatch Act of 1939, which prohibits some forms of political activity.

## **PETITIONS AND UNOFFICIAL COMMUNICATIONS**

Notification of Meeting Cancellation/Karegnondi Water Authority (KWA)

Notification of Meeting Cancellation received June 8, 2021, re: The Karegnondi Water Authority (KWA) Board meeting scheduled for June 14, 2021, is cancelled.

**This Matter was Placed on File on the Consent Agenda.**

Notice of Public Hearing/Mt. Morris Township Planning Commission

Communication dated May 31, 2021, re: Notification of a public hearing to be held by the Mt. Morris Township Planning Commission at 5:30 p.m. June 7, 2021, virtually at [meet.google.com/nro-evtg-eur](https://meet.google.com/nro-evtg-eur) [Special Land Use Application: Flower Pot, LLC, 4161 Clio Road, Flint.]

**This Matter was Placed on File on the Consent Agenda.**

## **COMMUNICATIONS (from Mayor and other City Officials)**

Traffic Engineering/Closure Permits

Sidewalk, Lane and Street Closure permits (16) dated June 2021, for requested activities/events, with noted responsibility for the placement of the required traffic control devices, and/or personnel, for the protection of traffic and event participants.

This Matter was Placed on File on the Consent Agenda.

## **ADDITIONAL COMMUNICATIONS**

### **RESOLUTIONS**

Contract/Lighthouse Insurance Group/(Formerly Known as Lake Agency, Inc.)/Excess Workers' Compensation Insurance Coverage

Resolution resolving that the appropriate city officials are authorized to enter into a contract with Lighthouse Insurance Group to provide the city with excess Workers' Compensation Insurance coverage through Midwest Employers Insurance Co. at a premium cost amount NOT-TO-EXCEED \$102,846.00 for the period July 1, 2021 to June 30, 2022, as requested by Finance [Self-Insurance Fund Acct. No. 677-174.851-955.000.]

This Matter was **ADOPTED BY THE MASTER RESOLUTION** on the Consent Agenda.

Grant Acceptance/Budget Amendment/Transfer of Funds/North Flint Community Based Crime Reduction Project on Behalf of the Hamilton Community Health Network and the North Flint Illuminating Community Change (IC2) Revitalization Network

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to accept the grant funds set forth in the grant agreement of [Hamilton] Community Health Network, in the amount of \$10,381.44, to appropriate revenue and expenditure amounts using Grant Code FDOJ-CBCR21, and to make the grant funds available from March 1, 2021 through September 30, 2021. [NOTE: The Hamilton Community Health Network has informed the Flint Police Department that it has been awarded a grant from the Community Based Crime Reduction Project to investigate and follow-up on tips received from Crime Stoppers in the IC2 micro-hotspots. The funds will be used for unemployment, Medicare and overtime.]

This Matter was **ADOPTED BY THE MASTER RESOLUTION** on the Consent Agenda.

### **RESOLUTIONS (MAY BE REFERRED FROM SPECIAL AFFAIRS)**

Two-Year Contract/Complete Towing/Towing and Storage Services

Resolution resolving that the appropriate city officials are authorized to do all things necessary to enter into a contract with Complete Towing to provide towing and storage services, in an amount NOT-TO-EXCEED \$185,845.00 for FY2021 and \$242,400.00 for FY2022, pending budget adoption, [for an aggregate total of \$428,245.00], as requested by Police [General Fund Professional Services Acct. No. 101-305.206-801.000.]

**SEPARATED FROM MASTER RESOLUTION**

Change Order #1/Reliance Building Co./Sixth Water Quality Monitoring Panel/Control Station No. 2/Water Treatment Plant

Resolution resolving that the appropriate city officials, upon City Council approval, are authorized to do all things necessary to enter into Change Order No. 1 with Reliance Building Co. to install the sixth (6th) water quality monitoring panel in Control Station No. 2 at the Water Treatment Plant, in an amount NOT-TO-EXCEED \$17,925.00, for a total contract price NOT-TO-EXCEED \$392,325.00 [Water Quality Monitoring Acct. No. 496-557.000-801.062.] {NOTE: On August 12, 2019, the City Council adopted Resolution No. 190317 to build and install water quality monitoring panels at six (6) determined locations throughout the City of Flint. The city had not fully determined where to best locate and install the sixth panel, so the bid proposal only included the cost of building and supplying and not the communication hardware and installation/start-up costs, which total \$17,925.00.]

**This Matter was ADOPTED BY THE MASTER RESOLUTION on the Consent Agenda.**

Three-Year Contract/LA Construction/50/50 Sidewalk Replacement Program

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with LA Construction for 50/50 sidewalk replacement program services, as requested by DPW, in an amount NOT-TO-EXCEED \$165,000.00 per year for FY2022, FY2023 and FY2024, pending adoption of each year's budget, total of \$495,000.00 [Major Street Fund Professional Services Acct. No. 202-449.213-801.000 = \$65,000.00 and Local Street Fund Professional Services Acct. No. 203-449.213-801.000 = \$100,000.00.]

**SEPARATED FROM MASTER RESOLUTION**

Three-Year Contract/Cornerstone Municipal [Advisory] Group/dba Manquen Vance/Employee & Retiree Healthcare/Benefit Administration Services

Resolution resolving that the appropriate city officials are authorized to do all things necessary enter into a contract with Manquen Vance, to provide employee and retiree healthcare consulting and benefit administration services for FY2022, FY2023 and FY2024, in the amount of \$90,000.00, pending adoption of each year's budget, for a total cost of \$270,000 [Fringe Benefit Retiree Healthcare Fund Acct. No. 627-000.105-723.100 = \$45,000.00 and Professional Services Acct. No. 627-853.250-801.000 = \$45,000.00.]

**This Matter was ADOPTED BY THE MASTER RESOLUTION on the Consent Agenda.**

Three-Year Contract/Curtis Landscaping/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Curtis Landscaping for right-of-way mowing services, in an amount NOT-TO-EXCEED



\$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$50,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$50,000.00.]

**SEPARATED FROM MASTER RESOLUTION**

Three-Year Contract/Boyd's Lawn & Landscaping/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Boyd's Lawn & Landscaping for right-of-way mowing services, in an amount NOT-TO-EXCEED \$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$35,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$65,000.00.]

**SEPARATED FROM MASTER RESOLUTION**

Three-Year Contract/Forrest Lawn Care/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Forrest Lawn Care for right-of-way mowing services, in an amount NOT-TO-EXCEED \$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$40,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$60,000.00.]

**SEPARATED FROM MASTER RESOLUTION**

Three-Year Contract/Perfect Lawns/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Perfect Lawns for right-of-way mowing services, in an amount NOT-TO-EXCEED \$75,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$225,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$30,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$45,000.00.]

**SEPARATED FROM MASTER RESOLUTION**

Contract Extension/J&M Tree Service/Additional Tree Trimming Services

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to extend the contract with J&M Tree

Service to provide additional tree trimming services, as requested by DPW, in an amount NOT-TO-EXCEED \$15,000.00, and a total aggregate amount of \$88,000.00, under the same terms and conditions [Local Street Fund Professional Services Acct. No. 203-449.201-801.000.]

**SEPARATED FROM MASTER RESOLUTION**

1

Contract Extension/Great Lakes Tree Experts/Additional Tree Trimming Services

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to extend the contract with Great Lakes Tree Experts to provide additional tree trimming services, as requested by DPW, in an amount NOT-TO-EXCEED \$15,000.00, and a total aggregate amount of \$88,000.00, under the same terms and conditions [Local Street Fund Professional Services Acct. No. 203-449.201-801.000.]

**SEPARATED FROM MASTER RESOLUTION**

**Passed The Consent Agenda**

A motion was made by Councilperson Winfrey, seconded by Councilperson Winfrey-Carter, including all the preceding items marked as having been adopted on a Consent Agenda. The motion carried by the following vote:

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

**SEPARATED FROM THE MASTER RESOLUTION**

Two-Year Contract/Complete Towing/Towing and Storage Services

Resolution resolving that the appropriate city officials are authorized to do all things necessary to enter into a contract with Complete Towing to provide towing and storage services, in an amount NOT-TO-EXCEED \$185,845.00 for FY2021 and \$242,400.00 for FY2022, pending budget adoption, [for an aggregate total of \$428,245.00], as requested by Police [General Fund Professional Services Acct. No. 101-305.206-801.000.]

**Adopted**

**Substituted**

A motion was made by Councilperson Mays, seconded by Councilperson Winfrey-Carter, that this matter be REFERRED TO COMMITTEE to the FINANCE COMMITTEE, due back on July 7, 2021. The motion carried by the following vote:

**Aye:** 5 - Councilperson Mays, Councilperson Davis, Councilperson Winfrey-Carter, Councilperson Winfrey and Councilperson Galloway

**No:** 3 - Councilperson Guerra, Councilperson Fields and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

**Three-Year Contract/LA Construction/50/50 Sidewalk Replacement Program**

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with LA Construction for 50/50 sidewalk replacement program services, as requested by DPW, in an amount NOT-TO-EXCEED \$165,000.00 per year for FY2022, FY2023 and FY2024, pending adoption of each year's budget, total of \$495,000.00 [Major Street Fund Professional Services Acct. No. 202-449.213-801.000 = \$65,000.00 and Local Street Fund Professional Services Acct. No. 203-449.213-801.000 = \$100,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

**Three-Year Contract/Cornerstone Municipal [Advisory] Group/dba Manquen Vance/Employee & Retiree Healthcare/Benefit Administration Services**

Resolution resolving that the appropriate city officials are authorized to do all things necessary enter into a contract with Manquen Vance, to provide employee and retiree healthcare consulting and benefit administration services for FY2022, FY2023 and FY2024, in the amount of \$90,000.00, pending adoption of each year's budget, for a total cost of \$270,000 [Fringe Benefit Retiree Healthcare Fund Acct. No. 627-000.105-723.100 = \$45,000.00 and Professional Services Acct. No. 627-853.250-801.000 = \$45,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

**Three-Year Contract/Curtis Landscaping/Mowing Services/Right-of-Ways**

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Curtis Landscaping for right-of-way mowing services, in an amount NOT-TO-EXCEED \$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$50,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$50,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

Three-Year Contract/Boyd's Lawn & Landscaping/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Boyd's Lawn & Landscaping for right-of-way mowing services, in an amount NOT-TO-EXCEED \$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$35,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$65,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

Three-Year Contract/Forrest Lawn Care/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Forrest Lawn Care for right-of-way mowing services, in an amount NOT-TO-EXCEED \$100,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$300,000.00, as requested by Transportation [Major Street Fund Professional Services Acct. No. 202-449.201-801.000 = \$40,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$60,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Fields, Councilperson Winfrey-Carter, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

Three-Year Contract/Perfect Lawns/Mowing Services/Right-of-Ways

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to enter into a contract with Perfect Lawns for right-of-way mowing services, in an amount NOT-TO-EXCEED \$75,000.00 for FY2022, FY2023 and FY2024, pending adoption of each year's budget, for a total cost of \$225,000.00, as requested by Transportation [Major Street Fund

Professional Services Acct. No. 202-449.201-801.000 = \$30,000.00 and Local Street Fund Professional Services Acct. No. 203-449.201-801.000 = \$45,000.00.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Winfrey-Carter, Councilperson Fields, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

#### Contract Extension/J&M Tree Service/Additional Tree Trimming Services

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to extend the contract with J&M Tree Service to provide additional tree trimming services, as requested by DPW, in an amount NOT-TO-EXCEED \$15,000.00, and a total aggregate amount of \$88,000.00, under the same terms and conditions [Local Street Fund Professional Services Acct. No. 203-449.201-801.000.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Winfrey-Carter, Councilperson Fields, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

#### Contract Extension/Great Lakes Tree Experts/Additional Tree Trimming Services

Resolution resolving that the appropriate city officials, upon City Council's approval, are authorized to do all things necessary to extend the contract with Great Lakes Tree Experts to provide additional tree trimming services, as requested by DPW, in an amount NOT-TO-EXCEED \$15,000.00, and a total aggregate amount of \$88,000.00, under the same terms and conditions [Local Street Fund Professional Services Acct. No. 203-449.201-801.000.]

**A motion was made by Councilperson Mays, seconded by Councilperson Davis, that this matter be Adopted. The motion carried by the following vote:**

**Aye:** 8 - Councilperson Mays, Councilperson Davis, Councilperson Guerra, Councilperson Winfrey-Carter, Councilperson Fields, Councilperson Winfrey, Councilperson Galloway and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

## APPOINTMENTS (MAY BE REFERRED FROM SPECIAL AFFAIRS)

#### Appointment/Downtown Development Authority (DDA) Board/Casey Lester

Resolution resolving that the Flint City Council approves the appointment of Casey Lester (1950 Colchester Road, Flint, MI 48503) to serve a four-year term on the

Downtown Development Authority (DDA) Board, commencing June 30, 2021 and expiring June 30, 2025. [By way of background, Mr. Lester is replacing Glenn Kelly, whose term expired in August 2016, although he continued to serve, until recently resigning.]

**Approved**

**Substituted**

**A motion was made by Councilperson Mays, seconded by Councilperson Galloway, that this matter be POSTPONED for July 12, 2021. The motion carried by the following vote:**

**Aye:** 5 - Councilperson Mays, Councilperson Davis, Councilperson Fields, Councilperson Winfrey and Councilperson Galloway

**No:** 3 - Councilperson Guerra, Councilperson Winfrey-Carter and Councilperson Worthing

**Absent:** 1 - Councilperson Griggs

## **ADJOURNMENT**

*President Kate Fields adjourned this meeting at 11:30 p.m. after a motion by Councilperson Galloway and support from Councilperson Worthing. The vote was 6-2 (No: Mays, Davis). (Absent: Griggs).*

*Respectfully transcribed & submitted,*

*Janell Johnson, Administrative Secretary to City Council*



RESOLUTION NO.:

210157

PRESENTED:

APR - 7 2021

ADOPTED:

**RESOLUTION FOR THE APPOINTMENT OF DR. NANCY LOVE TO THE WATER  
SYSTEM ADVISORY COUNCIL**

**BY THE MAYOR:**

**WHEREAS**, pursuant to the State of Michigan's administrative rules section 325.10410(7), water supplies serving a population of 50,000 or more, and consecutive systems serving a population of 50,000 or more, shall create a water system advisory council;

**WHEREAS**, the council shall consist of at least five members, appointed by the community supply;

**WHEREAS**, the purpose of this council is to improve transparency in the City of Flint community by developing materials and advising the water system on public awareness and education efforts.

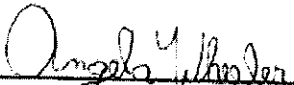
**WHEREAS**, to be eligible for appointment to the council, an individual shall have a demonstrated interest in or knowledge about lead in drinking water and its effects.;

**WHEREAS**, the council will develop plans for continuing public awareness about lead in drinking water, even when the action level is not exceeded.;; review public awareness campaign materials provided by the statewide drinking water advisory council to ensure the needs and interest of the community, considering the economic and cultural diversity of its residents, are addressed; advise and consult with the water supply on the development of appropriate plans for remediation and public education to be implemented if a lead action level is exceeded; advise and consult with the water supply on efforts to replace private lead service lines at locations where the owner declined service line replacement; assist in promoting transparency of all data and documents related to lead in drinking water within the water supply service area


**WHEREAS**, Mayor Neeley desires to appoint Dr. Nancy Love to the Water System Advisory Council (See Attached Resume).

**NOW THEREFORE BE IT RESOLVED**, that Mayor Neeley hereby appoints Dr. Nancy Love address 1351 Beal Avenue, Ann Arbor, MI 48109 to serve on the Water System Advisory Council.

**APPROVED AS TO FORM:**

  
Angela Wheeler, City Attorney

**FOR THE CITY OF FLINT:**

  
Sheldon A. Neeley, Mayor

**APPROVED BY CITY COUNCIL:**

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**Kate Fields, City Council President**

S:\AWO\Water System Advisory Council\Revised Documents\J.Gaskin (Clean Copy) Resolution to Appoint to the Water System Advisory Council (1).doc



**NANCY G. LOVE, Ph.D., P.E., BCEE**

Borchardt and Glysson Collegiate Professor

3BUniversity of Michigan, 4B183 EWRE, 1351 Beal Avenue, Ann Arbor, MI 48109-2125

0BVoice: (734) 763-9664; 2BE-mail: [nglove@umich.edu](mailto:nglove@umich.edu); N-E-Wcycles.org (under construction)**RESEARCH OVERVIEW**

In collaboration with my students, I work at the interface of water, infrastructure, and public health in both domestic and global settings. My group advances public and environmental health using chemical, biological, and computational approaches applied to water systems, and co-design methods in partnership with communities. Specific project areas include: evaluating the fate of chemicals, pathogens and contaminants of emerging concern in water with relevance to public health and the environment; using technologies to sense and remove these constituents; advancing technologies that recover useful resources from water, and developing approaches that enable local decision-making around water quality, resource efficiency, and equity.

**EDUCATION**

<b>Doctor of Philosophy</b> Environmental Systems Engineering, Clemson University Advisor: C. P. Leslie Grady Jr.	1994
<b>Masters of Science</b> Civil Engineering, University of Illinois at Urbana-Champaign Advisor: John T. Pfeffer	1986
<b>Bachelors of Science</b> Civil Engineering, University of Illinois at Urbana-Champaign	1984

**PROFESSIONAL EXPERIENCE AND LICENSURE**

<b>Professor</b> Department of Civil & Environmental Engineering, University of Michigan (U-M) Co-Founder and Co-PI, Environmental Biotechnology Lab, U-M	2008-present
<b>U-M Faculty Affiliate</b> Graham Sustainability Institute ( <a href="http://graham.umich.edu/">http://graham.umich.edu/</a> ); Energy Institute ( <a href="https://energy.umich.edu/">https://energy.umich.edu/</a> ); Poverty Solutions Institute ( <a href="https://poverty.umich.edu/">https://poverty.umich.edu/</a> ); African Studies Center ( <a href="https://ii.umich.edu/asc">https://ii.umich.edu/asc</a> )	Present
<b>Licensed Professional Engineer</b> Environmental Engineering, State of Michigan, License No. 6201057483.	2010 - present
<b>Adjunct Professor</b> Institute of Biotechnology, Addis Ababa University, Ethiopia	2016 - 2019
<b>Staff</b> UNESCO-IHE (United Nations Water Education Institute), sabbatical	Feb – July 2014
<b>Associate Dean for Academic Programs and Initiatives</b> Horace H. Rackham School for Graduate Studies	2011 - 2012
<b>Board Certified Environmental Engineer (BCEE)</b> Certified by Eminence, American Academy of Environmental Engineers	2011-present
<b>Department Chair</b> Department of Civil and Environmental Engineering, University of Michigan	2008 – 2011
<b>Professor</b> Department of Civil and Environmental Engineering, Virginia Tech	2005 – 2007
<b>Adjunct Professor</b> Department of Biological Sciences, Virginia Tech	2002 – 2007

<b>Associate Professor</b> Department of Civil and Environmental Engineering, Virginia Tech	2000 – 2005
<b>Assistant Professor</b> Department of Civil and Environmental Engineering, Virginia Tech	1994 – 2000
<b>Co-Founder and Co-Principal Investigator at Virginia Tech</b> Environmental BioNanoTechnology Laboratory, Virginia Tech Fralin Environmental Biotechnology Laboratory, Virginia Tech	2005 – 2007 1995 – 1999
<b>Project Engineer</b> CH2M Hill, Inc. (now Jacobs Engineering Group), Dallas, Texas	1986 – 1989

#### **ADMINISTRATIVE ACCOMPLISHMENTS**

- |  |                         |
|--|-------------------------|
| <ul style="list-style-type: none"> <li>Became Diversity, Equity, and Inclusion (DEI) chair in the summer of 2020 to re-envision leadership around DEI and lead a collaborative team to develop an actionable roadmap for change. The committee was transformed to include voting members from across the department (students, staff, post-docs and faculty), all member categories were given equally visible leading positions in the committee, and structured the committee operating practices toward transparency and inclusion to serve as a model. A roadmap to drive systemic change was drafted, vetted, modified and is being finalized for publication. The roadmap includes efforts and goals across six pillars (recruiting a diverse community; building and valuing DEI skills; fostering a strong, connected, and successful community; developing a healthy and safe environment for mentoring, sponsorship, and advocacy; enabling an honest and transparent dialogue; and transforming our curriculum). In anticipation of an upcoming sabbatical and to ensure leadership continuity, I stepped down as lead once the roadmap was entering final production. This allows a new leader to be established in time for the public launch.</li> </ul> | July 2020 - current     |
| <ul style="list-style-type: none"> <li>As a member of the board of the Association of Environmental Engineering and Science Professors (a position elected by the organization's membership), I was elected onto the Vice-President, President-Elect, and President path by the board. As president, I engaged international members by hosting the first AEESP-International Water Association (IWA) joint reception at the IWA World Congress in Quebec City, and appointed international members to key committee leadership positions. I also initiated the movement of the organization from being self-run to using a management company that continues to oversee the board's functions. This has allowed the board to act more as a visionary and less as a managing body. All these changes remain today.</li> </ul>  | 2007-2011               |
| <ul style="list-style-type: none"> <li>As department chair of Civil and Environmental Engineering at the University of Michigan, I lead or oversaw: a significant transition in administrative staff; centralization of departmental operating management to enhance efficiencies; the development of procedures to achieve a balanced budget; the development of standard operating procedures and a governing document for the first time; the development of new strategic directions for the department; an increase in external funding of 40%; the doubling of student enrollments within a 5 year period; addition of \$8.5 million to the department's endowment; and hiring five faculty.</li> </ul>  | Jan 2008–<br>Aug 2011   |
| <ul style="list-style-type: none"> <li>As a co-PI of the \$3.5 million Virginia Tech NSF Advance Institutional Transformation Grant focused on women's leadership in academia, I lead activities associated with graduate student and post-doctoral engagement toward the professoriate.</li> </ul>  | July 2003–<br>June 2008 |

## MAJOR HONORS AND NOTABLE RECOGNITIONS

- American Society of Civil Engineers Wesley W. Horner Award for Daigger et al., Progress and Promise Transitioning to the One Water/Resource Recovery Integrated Urban Water Management Systems. *J Env Eng*, 2019. 2021
- American Academy of Environmental Engineers & Scientists Science Award 2020
- University of Illinois Urbana-Champaign Civil & Environmental Engineering Alumni Assoc. Distinguished Alumna Award 2020
- Kappe Lecture, American Academy of Environmental Engineers & Scientists 2019 - 2020
- AEESP/WEF Master Lecture: An Academic Perspective on Rethinking Urban Water Infrastructure Across the Classroom, Lab and Field. WEFTEC 2017, Chicago IL. October 2, 2017. 2017
- Distinguished Faculty Fellow in Sustainability, University of Michigan 2017-present
- Named Borchardt and Glysson Collegiate Professor, University of Michigan 2016
- Elected Fellow, Association of Environmental Engineering & Science Professors. 2015
- *Environmental Science and Technology Letters*, Best of the Best Paper Award for Delgado Vela et al. 2015 (see publications list). 2015
- Selected AEESP Distinguished Lecturer. 2015-2016
- Elected Fellow of the International Water Association. 2014
- Alec Gallimore Faculty Award from the Society of Minority Engineers and Scientists - Graduate (SMES-G) for being an effective advocate, ally and advisor to students of color, April 2012. 2012
- Gordon Maskew Fair Distinguished Engineering Educator, Water Environment Federation. 2011
- Elected Fellow of the Water Environment Federation. Inaugural class. 2011
- Certification by Eminence, Board Certified Environmental Engineer (BCEE). American Academy of Environmental Engineers. 2011
- President and Member of the Board, Association of Environmental Engineering and Science Professors. Position on Board of Directors is elected nationally, and position of president is then elected by the Board of Directors. 2007 - 2011
- Rudolfs Industrial Waste Management Medal for noteworthy accomplishments in industrial waste management research, Water Environment Federation. For Henriques et al. 2007. Activated sludge inhibition by chemical stressors – a comprehensive study. *Water Environment Research* 79(9):940-951. 2008
- CEE Alumni Teaching Excellence Award, Virginia Tech 2006
- Women's Center Advancing Women Award, Virginia Tech 2005
- Excellence in Research Award, College of Engineering, Virginia Tech 2005
- Faculty Fellow, \$15,000 over 3 years, College of Engineering, Virginia Tech 2003 – 2006
- Harrison Prescott Eddy Medal for outstanding contribution to wastewater principles/process research, Water Environment Federation. For Charles B. Bott and Nancy G. Love, for "Investigating a mechanistic cause for activated sludge deflocculation in response to shock loads of toxic electrophilic chemicals." *Water Environment Research*, 74:306-315 (2002). 2003
- Outstanding Young Alumni, College of Engineering & Science, Clemson Univ. 2002
- Paul L. Busch Award for Innovation in Applied Water Quality Research, Water Environment Research Foundation (\$100,000) 2001

- National Science Foundation CAREER Award Recipient 1995
- American Association of University Women Selected Professions Fellow 1993
- Chi Epsilon Civil Engineering Honor Society initiate 1985

## **PROFESSIONAL MEMBERSHIPS, ACTIVITIES AND APPOINTMENTS**

### **Editorial Boards**

- ACS ES&T Engineering, Associate Editor (inaugural) 2020 - present
- Water Environment Research  
Editorial Board 2019 – present  
Editor-in-Chief search committee 2009  
Associate Editor 2002 - 2005
- Environmental Engineering Science, Editorial Board 2015 - present

### **Current Memberships and Activities**

- American Association for the Advancement of Science  
Member 2016 - present
- American Academy of Environmental Engineers and Scientist (AAEES)  
Member 2011 – present  
Board Certified Environmental Engineer (by eminence) 2012 – present  
Environmental Engineering Science Awards Committee 2020 - present  
Environmental Engineering and Science Foundation Board of Directors 2014-2016
- American Chemical Society  
Member 2012 - present
- American Society of Civil Engineers (ASCE)  
Member  
Active participant: ASCE Department Chair's meetings  
EWRE Sustainability subcommittee  
Discontinuous  
1980's – present  
2008-2011  
2007 - 2009
- American Society for Engineering Education  
Member  
Discontinuous  
1994 - present
- Association of Environmental Engineering and Science Professors  
Member and Fellow (2015) 1994 – present  
Master's Thesis Awards Subcommittee (Chair, 1999) 1997 – 1999  
Awards Committee (Chair, 2006-2007) 2004 – 2007  
Board of Directors (Elected by membership; elected by board as Vice-President 2008-2009; President-Elect 2009-2010; President 2010-2011) 2007 – 2011  
Co-Chair, AEESP 2017 Biannual Conference 2016-2017  
AEESP Fellows Selection Committee 2018
- International Water Association  
Member and Fellow (2014) 1989 – present  
Environmental Engineering Education specialist's group, chair effective 2014 2006 - present  
Microbial Ecology in Water Engineering (MEWE, formerly Activated Sludge  
Population Dynamics) Specialty Group member 1995 – present  
MEWE program committee 2005 - 2019  
Chair, MEWE2013 conference, Ann Arbor, Michigan USA 2012 - 2013  
Leading Edge Technology (LET) Program Committee 2007 – 2009  
Instrumentation, Control and Automation Group 2001 – 2007  
Organizing Committee, Nutrient Management 2007 Workshop 2005 – 2007

MEGA working group member	2005 – 2008
Biofilms 2010 Conference Program Committee	2009 – 2010
• <b>Water Environment Federation</b>	
Member and Fellow (2011)	1986 – present
Awards Committee	2012 - present
Research Symposium Subcommittee	1999 – 2003
Virginia WEA Student Activities Committee	1997 – 2007
Work Force Task Force – WEF Presidential Appointment	2008 – 2009
Nutrient Specialty Conference Program Committee	2008 - 2009
Chair, Academic Committee	2009 – 2013
• <b>Water Environment Research Foundation</b>	
Leaders Innovation Forum for Technology (LIFT) Steering Committee	2015 – current
Chlorination Control and Monitoring Practices Project Advisory Committee	2000 - 2002
Wastewater Security Project Subcommittee	2003 – 2004
Sensors for Security in WWT Systems Project Advisory Committee	2005 – 2007
Paul L. Busch Award Selection Committee	2005 – 2011
Membrane Aerated Biofilm Reactor Project Advisory Committee, U2R14	2016-2018
<b>Current Board Appointments</b>	
• <b>National Water Research Institute Independent Science Advisory Panel for Metropolitan Water District</b>	2019-present
• <b>ReNUWit Engineering Research Center Science Advisory Board, Stanford, UC-Berkeley, Colorado School of Mines, New Mexico State University</b>	2015-2020
• <b>University of Iowa NSF Sustainable Water Development Graduate Program Advisory Board Member</b>	2017-2019
<b>Prior Memberships, Activities and Board Appointments</b>	
• <b>American Society for Microbiology, Member</b>	1991–2010
• <b>Environmental Protection Agency</b>	2010 - 2012
EPA Science Advisory Board, Drinking Water Subcommittee	
• <b>Appointed Member, Michigan Department of Agriculture/Michigan Department of Environmental Quality Food Processors Working Group</b>	2009 - 2010
• <b>Michigan Economic Development Corporation (MEDC) Water Cluster Committee, establishing water-based technology investment goals for Michigan.</b>	2008 – 2010
• <b>National Society of Professional Engineers</b>	
Member	Discontinuous
• <b>Member, NSF's CLEANER (later, WATERS Network) Initiative as (a) planning phase participant, (b) Co-PI on environmental impacts to coastal margins planning grant and (c) Member, sensor sub-committee.</b>	1987 - 2019
	2002 – 2007
• <b>Appointed by Governors Warner and Kaine (Virginia) to the Scientific and Technical Advisory Committee to the Chesapeake Executive Council</b>	2005 – 2007
Workshop co-chair and author, Establishing a Research Agenda for Assessing the Bioavailability of Wastewater-Derived Organic Nitrogen in Treatment Systems and Receiving Waters, September 27 and 28, 2007, Baltimore, Maryland.	
<a href="http://www.chesapeake.org/stac/Pubs/eonreport.pdf">Hhttp://www.chesapeake.org/stac/Pubs/eonreport.pdf</a>	
• <b>Women In Engineering Leadership Institute (WELI) Strategic Planning Committee</b>	2004 – 2005

## MAJOR COMMUNITY SERVICE AND OUTREACH ACTIVITIES

- **N95DECON.org.** A consortium of volunteer researchers from universities across the United States and world who worked to decipher, evaluate, and disseminate technically accurate information about N95 respirators as well as other kinds of masks and face coverings, in response the coronavirus pandemic. A key member of the Heat Treatment sub-team and participant in other subcommittees, as needed. April 2020 - present
- **City of Flint Technical Advisory Committee.** Appointed by Mayors Weaver (2017-2019) and Neeley (2019 – current) to provide guidance on behalf of the city's efforts in response to the Flint Water Crisis and other environmental and public health needs. 2017 – present
- **Train-the-Trainers.** Designed, developed, and delivered a curriculum about faucet-mounted point-of-use filters to Flint residents who became trainers for other Flint residents. Syndicated the curriculum to other communities with input from Flint community and partners. 2018 - present
- **K-12 Drinking Water Filtration.** Working with multiple organizations in the following ways: (a) developing and providing technical guidance on assessing the performance of point-of-use filters and advanced hydration stations used in schools (Flint Community Schools, Ann Arbor Public Schools); (b) provided technical input to the development of a model law by the National Resources Defense Council; (c) serving in a technical advisory role to the FilterFirst grassroots initiative that has successfully introduced bipartisan legislation in the State of Michigan to require point-of-use filtration of drinking water in schools and daycare centers throughout the state. 2018 - present
- **Partnerships around Research and Education in Ethiopia.** Partnering with faculty in various Institutes at Addis Ababa University in Ethiopia to advance graduate education as new Ph.D. programs are implemented. Create opportunities for AAU students to visit U-M for beneficial research experiences and partner those students with U-M Ph.D. students who serve as peer collaborators. Serve on the Ph.D. committees of AAU students. 2017 - 2019
- **Community-Targeted Scholarship**  
N. G. Love, R. Jackson, S. P. McElmurry. Water Stays in the Pipes Longer in Shrinking Cities – A Challenge for Public Health. *The Conversation*, May 24, 2019. <http://theconversation.com/water-stays-in-the-pipes-longer-in-shrinking-cities-a-challenge-for-public-health-116119>  
N. G. Love. We All Deserve to Have Confidence in Our Water. *Medium*. May 10, 2019. [https://medium.com/@nglove/we-all-deserve-to-have-confidence-in-our-water-6994b2f7e00c?source=friends\\_link&sk=a1703f45b60797717658138319b971b1](https://medium.com/@nglove/we-all-deserve-to-have-confidence-in-our-water-6994b2f7e00c?source=friends_link&sk=a1703f45b60797717658138319b971b1)

## MAJOR UNIVERSITY, COLLEGE & DEPARTMENT SERVICE/PROGRAMMATIC RESPONSIBILITIES

### University of Michigan

- President's Public Health Advisory Committee on COVID Fall 2020-present
- UM Center for Global Health Equity Leadership Council, and co-chair of Climate Vulnerability and Health group. \$20 million center that is launching in 2021. Aug 2020-present
- University of Michigan Scientific Reviewer, Institutional Biosafety Committee (IBC), appointed by Vice President for Research July 1, 2020 – June 30, 2023
- CEE Diversity, Equity, and Inclusion Chair (through 2020), then committee member Aug 2020–present
- CEE Executive Committee (elected position) 2019-2021
- Undergraduate Recruitment Committee 2019-2020
- Richart Lecture Committee 2017-2018

• Advisory Group on University of Michigan activities in Ethiopia, Provost's office	2019-2020
• Advisory Group: U-M Lead and Copper Rule Project, Graham Institute overseeing Mott Foundation project.	2017-2019
• Civil and Environmental Engineering Strategic Plan Implementation and Development Committee, Revising plan in 2017-2018	2018-2019
• College of Engineering Graduate Recruitment, Retention & Summer Programs Advisory Group	2013-2018
• Internal Advisory Board Member, Center for Socially-Engaged Design	2017-2018
• Administrative Structure Working Group, School of the Environment and Sustainability Transition Subcommittee	2017-2020
• U-M ADVANCE LAUNCH Committee Chair	2017
• College of Engineering Promotion, Tenure and Reappointment Process Review Committee, Chair	2016-2017
• UM Energy Institute Faculty Affiliate ( <a href="https://energy.umich.edu/">https://energy.umich.edu/</a> )	2017
• College of Engineering Faculty Search Committee for positions in Engineering Education Research (EER)	2018-present
• Ethiopia – Michigan Collaborative Consortium (EMC2) Planning Committee, appointed by Assoc Provost James Holloway	2015-2016
• Provost's Committee on Environment and Sustainability	2015-2018
• Provost's Poverty Visioning Committee	2016
• Integrated Training in Microbial Systems (ITiMS) (Burroughs Wellcome Fund training program) Faculty Affiliate	2015-2016
• President's Advisory Commission on Women's Issues	2015 - present
• President's Postdoctoral Fellowship Advisory Committee	2014-2015
• Rackham Graduate School Dean Search Committee	2014-2015
• Provost's Promotion and Tenure Committee	2014
• Mentoring Others Results in Excellence (MORE) Committee, Rackham Graduate School, Member and Chair	2013
• Alumni Liaison Committee, Civil and Environmental Engineering	2012 - 2013
• Deans Advisory Committee on Female Faculty, College of Engineering	2012-2014
• Faculty Search Committee Co-Chair, Civil and Environmental Engineering	2012-2013
• Center for Molecular and Clinical Epidemiology of Infectious Diseases (MAC-EPID) Faculty Affiliate	2011-2012
• Graham Sustainability Institute Faculty Affiliate	2009 - present
• College of Engineering Alumni Awards Selection Committee	2009 - current
• Graham Environmental Sustainability Institute, Executive Committee	2011
• College of Engineering Dean's Advisory Committee on Faculty Diversity	2009 - 2011
• Provost's Office - Classroom Emergency Training Video Planning Group	2010 - 2012
• College of Engineering <i>ad hoc</i> Committee on Graduate Student Excellence	Fall 2008 – 2009
<b>Virginia Tech</b>	Summer 2008
• Chair, College of Engineering "Think Tank" Committee (6 faculty)	2006 – 2007
• Space/Overhead Return Allocation <i>ad hoc</i> Committee, Provost apptmt	2005

- College of Engineering Dean's Search Committee 2005
- co-Coordinator, Via Academic Preparation Program for graduate student professional development, Dept of Civil and Environmental Engineering 2004 – 2007
- co-Principal Investigator and Advance Professor for \$3.5 million NSF Advance Institutional Transformation grant focused on increasing the participation and advancement of women in academic STEM careers. Chair: Advancing Women into the Profession 2003 – 2006
- Environmental Public Health Committee 2003 – 2004
- Provost's Implementation Committee, Biomedical & Public Health Institute 2002
- Board of Directors, WPI, Inc., a Virginia Tech affiliated company. 2001 – 2003
- Provost's Environmental Health Committee 2002
- Provost's Committee on Biomedical Research 2001 – 2002
- College of Engineering Diversity Committee 2001 – 2005
- Environmental Engineering Laboratory Coordinator & staff supervisor 1997 – 2005
- University Cross Cutting Initiatives Committee, Environment & Energy 1998 – 2000
- Fralin Biotechnology Center 5 Year Review Committee 2000
- Environmental Engineering Graduate Student Recruitment Officer 2000

#### **UNIVERSITY TEACHING RESPONSIBILITIES**

Introduction to Environmental Engineering; Models in Environmental Engineering; Water and Wastewater Treatment Design; Applied Biology of Environmental Systems; Biological Treatment Processes: Theory and Design; Environmental Microbiology; Introduction to Civil and Environmental Engineering; Engineering Solutions to Global Water Issues (Freshmen Design-Build-Test course); Decentralized Water Supply, Hygiene and Sanitation (co-produced with faculty at Addis Ababa University, Ethiopia); Urban Environmental Systems: Project-based Experiences for Students (focused on a diverse group of students in Engineering; Urban Planning, Public Health, Environment & Sustainability); Robots, Sensors and Smart Water Systems (co-developed Freshmen Design-Build-Test Course)

#### **ADVISING RESPONSIBILITIES**

Currently serving as advisor for 2 undergraduate research students, 1 master's students, and 8 Ph.D. students. Previously advised 44 M.S. students with thesis or significant project, 18 Ph.D. students, 7 post-doctoral research associates, and 36 undergraduate research projects/theses.

#### **Major Undergraduate Research Projects**

1. Harrison Suchyta. Summer 2019-current. Developing urine-derived fertilizers for flowering and woody plants at UM's Botanical Garden.
2. Leah Pifer. Fall 2019 – current. Developing an algorithm for a hand-held water quality monitoring strip.
3. Julia Raneses. Fall 2019 – Aug 2020. Building-Scale Urine Separation Systems.
4. Kensey Dahlquist. Spring 2019 – current. Projects in support of building-scale urine separation, collection and processing for nutrient-energy-water cycling.
5. Yen Jee Ooi. Summer 2018 (at Rich Earth Institute), then Fall 2018-2019. Nutrient analysis for NSF INFEWS project.
6. Brittany Brown. Summers 2017 and 2018. Characterization of *Stenotrophomonas maltophilia* from drinking water through culturing and qPCR, and bioavailability of high versus low water age carbon.
7. Myriam Samment. 2018 summer. Bioavailability of high versus low water age carbon in drinking water isolates.
8. Alexi Sinanaj. 2017 – 2018. Pharmaceutical removal from urine through activated carbon adsorption.
9. Brady Nishimiya. 2017-2018. Disinfection residual effectiveness of point-of-use product.
10. Nicholas Lowe. 2017-2018. Automated flushing device to improve water quality through point-of-use drinking water filters.



11. Dylan Raye-Leonard. 2016-2018. Urine-derived fertilizer project.
12. Brittany Brown. 2016. Microbial ecology of novel nitrogen removal systems.
13. Ishi Keenum. 2015 – 2016. Plasma treatment of source-separated urine for fertilizer development (co-mentor with K. Wigginton).
14. Mariah Gnegy. 2015-2016. DNA-based analysis of bacteria and viruses in source separated urine (co-mentor with K. Wigginton).
15. Weitian Wang. 2010-2011. Microaerobic Removal of Pharmaceuticals from Wastewater
16. Celine Saucier. 2010-2011. Nitrate Removal to Enable the Effluent Organic Nitrogen Bioassay
17. Bryan VanDuijn. 2009. Life Cycle Assessment of Various Disposal Methods for Unused Pharmaceuticals.
18. Shayan Sengupta. 2009: Assessing the Toxicity of Pharmaceuticals at Doses Expected from Secondary Infections Experienced During a Pandemic.
19. Genevieve Ho. 2008-2009: First project - Assessing a Thin-Film pH Biosensor. Second project – Abiotic Ammonia release from Effluent Organic Nitrogen Along Salinity Gradients.
20. Brian Harris. 2007: Assessing Oxidative Stress Response Function of Alginate-Immobilized Bacteria
21. Zachary Frye. 2006. Assessing the Feasibility of Nanostructure-Enhanced Nitrifying Microbial Fuel Cells
22. Brian Segal. 2006-2007. Evaluation of Ammonia Oxidizing Bacterial Biofilms.
23. Stephanie Harris. 2005-2006. Development of a Microfluidic Immunomagnetic Separation Biosensor for Detecting Bacterial Pathogens.
24. Beth McConnell. 2003-2004. The Affect of Physiology on Bacterial Responses to Oxidative Uncouplers
25. Suzanne Ayers. 2002. VIA Undergraduate Scholar: Evaluating the Impact of Toxic Shocks on Wastewater Treatment Performance
26. Felicia Glapion. 2001-2002. NEM-Induced Potassium Efflux in *Pseudomonas aeruginosa*
27. Monica Mace. 2000-2001. GE Scholarship: Denitrification of Aquaculture Wastewaters
28. Denise Gillam. 2000. Water Center Undergraduate Fellowship: The Impact of Potassium Efflux on Biofilm Treatment Systems Exposed to Electrophilic Toxins
29. Mike Gatza. 1999-2000. Using Two-Dimensional Gel Electrophoresis to Characterize Stress Proteins (Co-advised with Dr. Ann Stevens)
30. Bethany McRae. 1999-2000. NSF REU: Induction of the Glutathione-Gated Potassium Efflux System in *Sphingomonas capsulata* Exposed to HOCl
31. Jennifer Abrajano. 1999-2000. NSF REU: Assessing the Metabolism of Xenobiotic Compounds by Microaerobically-Grown Magnetotactic Bacteria
32. Scott Phipps. 1998-1999. Dewatering of Oily Wastewater Sludges. (Co-advised with Dr. John Novak)
33. Katya Bilyk. 1998-1999. NSF REU: Nitrite Inhibition and Toluene Degradation Under Denitrifying Conditions
34. Julie Wheeler. 1997-1998. NSF REU: Impact of Xenobiotic Stressors on Activated Sludge System Performance
35. Mary Rust. 1996-1997. Water Center Undergraduate Fellowship and NSF REU: Development and Isolation of Acetaldehyde Oxime and Methylethyl Ketoxime Degrading Cultures
36. Elliott Wheeler. 1995-1996. The Role of Various Cations in Settling and Dewatering of Biological Wastewater Treatment Sludges
37. Jon Treadway. 1995. Determination of Proteins in Activated Sludge Using Commercial Assays
38. Kevin Gilmore. Fall 1995: The Impact of Oximes on the Degree and Rate of Nitrification in Activated Sludge Cultures. Spring 1996: Evaluation of Chemical Oxidation as Pretreatment for Wastewaters Containing Aldicarb Oxime

#### **Masters Students with Theses, Extensive Research Project, or Project Report**

1. Julia Raneses. 2019 – current. Nutrient balances at the community scale.
2. Nick J. Lowe. 2018 – 2019. Toxicological monitoring of SWIFT effluent from Hampton Roads Sanitation District.

3. Avery Carlson. 2016 – 2018. Isolating and identifying comma-shaped nuisance bacteria in Traverse City's membrane bioreactor treatment system. (co-advised with Glen Daigger)
4. Enrique Rodriguez. 2016 – 2018. Plasma as a platform for advanced oxidation of urine to generate safe fertilizers (co-advised with Krista Wigginton)
5. Zixu Zhao. 2016-2017. Optimizing flushing to reduce microbial contamination of point-of-use filtered drinking water.
6. Andrea McFarland. 2015 – 2018. NSF Fellowship Recipient. Water quality benefits due to green infrastructure. (Co-advised with Larissa Larsen, Urban Planning). National Achievement: NSF Graduate Research Fellowship.
7. Samayyah Williams. 2014-2015. Modeling, understanding, and assessing technologies for the Detroit Water and Sewerage Department (DWSD) Wastewater Treatment Plant.
8. Nigel Beaton. 2014-2015. Low energy-demanding nitrogen removal from anaerobic effluents using biofilm technologies.
9. Anton Dapcic. 2013 -- 2014. A performance evaluation of the WASAC™ energy recovery process.
10. Angelica Perez De La Rosa. 2010-2012. The impact of chlorinated phenols on the microbial ecology of point-of-use drinking water filters.
11. C. Davis Powell. 2011-2014. Evaluating the environmental impacts of urine source separation.
12. Chris Moline. 2010-2011. The fate of pharmaceuticals in microaerobic biological treatment processes.
13. Alexi Ernstoff. 2009 – 2011. The impact of culturing buffer on the ability of *Nitrosomonas europaea* to biotransform 17  $\alpha$ -ethinylestradiol. Current affiliation – Ph.D. student, Technical University of Denmark.
14. Sam Hardin. 2006-2011. The effectiveness of corrective action strategies on chemically stressed biological wastewater treatment systems. Current affiliation – environmental engineering consulting. National Achievement: WEFTEC Best Poster, 1<sup>st</sup> Place, 2008.
15. Romeo Capuno. 2005-2007. Modeling anaerobic ammonia oxidizing biofilms. Current affiliation – environmental engineering consulting.
16. Jason Beck. 2005-2007. Evaluating deammonification processes to achieve nitrogen removal from dairy waste. Current affiliation – environmental engineering consulting.
17. Jeremy Guest. 2005-2007. Laboratory testing of process controls for the mitigation of toxic shock events at enhanced biological phosphorus removal wastewater treatment plants. Current affiliation – Assistant Professor, University of Illinois.
18. Kaoru Ikuma. 2004-2007. The development of a bacterial biosensor designed to detect oxidative chemicals in water: correlating sensor relevance to mammalian brain cells and assessing bacterial cell immobilization strategies. Current affiliation – Assistant Professor, Iowa State University.
19. Mert Muftugil. 2004-2011. Enhanced Biological Phosphorus Removal of Dairy Manure using Sequencing Batch Reactors: Performance, Kinetics and Model Development. Current affiliation – environmental engineering consulting.
20. Anna Zaklikowski. 2004-2006. Evaluating the Effectiveness of Disinfection Strategies in the Inhibition and Inactivation of Ammonia Oxidizing Bacteria. Current affiliation – environmental engineering consulting.
21. Ka Man Chan. 2004-2005. Feasibility Study of In Situ Bioremediation of Bis(2-Chloroethyl) Ether and 1,2-Dichloroethane. Affiliation upon graduation – water utility.
22. Paul Sweetman. 2004-2005. Evaluating the Fate of Manure Nitrogen in Confined Dairy Waste Operations: A Full-Scale Waste Analysis and Start-up Protocol for an Anammox –Based Treatment Technology Applicable to Dairy Waste Management. Affiliation upon graduation – government position in Ireland.
23. Irina Chakraborty. (Degree from University of Helsinki, Finland) 2002-2005. Characterizing the Adaptation of a Subsurface Microbial Community using Biomolecular Tools (co-advised with Dr. Ann Stevens, Biology). Affiliation upon graduation – Ph.D. student in environmental microbiology.
24. Katharine Linares. 2002-2004. Development of a Biosensor for Detecting Toxic Electrophilic Chemicals in Waters. Current affiliation – environmental engineering consulting.

25. Jennifer Dauphinais. 2002-2003. Effects of Toxic Chemicals on Biological Wastewater Treatment Processes. Current affiliation – US government-based environmental services.
26. Rachelle Rhodes. 2002-2004. Subsurface Microbial Community Adaptation to Xenobiotic Influx. Current affiliation – environmental engineering consulting.
27. Susanna Leung. 2001-2003. Oxygen Transfer Efficiency in a Biological Aerated Filter (co-advised with John Little). Current affiliation – environmental engineering consulting.
28. Giacomo Sonzini. (Degree from Politecnico Di Milano, Italy) 2001. Investigation of K<sup>+</sup> Efflux as Response to Intoxication for Nitrifying Activated Sludge. Affiliation upon graduating – financial analyst in Italy.
29. Kristina Yanosek (Biological Systems Engineering). 2000-2002. Enhanced Biological Phosphorus Removal from Dairy Manure to Meet Nitrogen and Phosphorus Crop Nutrient Requirements (co-advised with Dr. Mary Leigh Wolfe). Affiliation upon graduation – US Dept of Interior.
30. David Whichard. 2000-2001. Nitrogen Removal from Dairy Manure Wastewater Using Sequencing Batch Reactors. Affiliation upon graduating – environmental services in industry.
31. Kofi Asiedu. 2000-2001. Evaluating Biological Treatment Systems: I. Moving Bed Biofilm Reactor Versus Biological Aerated Filter. II. Sulfide-Induced Corrosion in Anaerobic Digester Gas Piping. Current affiliation – Engineer III, Prince William County, Virginia.
32. Melissa Fouratt (Biological Sciences). 1998-2001. Application of Molecular Techniques to the Characterization of a Nitrifying Bioaugmentation Culture (co-advised with Dr. Ann Stevens). Position upon graduation – pharmaceutical sales.
33. Scott Phipps. 1999-2001. Performance Evaluation and Yield Determination of a Full-Scale Biological Aerated Filter. Current affiliation – environmental engineering consulting.
34. Brian Brazil. 1999-2001. Evaluation of an Effluent Treatment Strategy to Control Nitrogen from a Recirculating Aquaculture Facility. Current affiliation – environmental engineering consulting.
35. Robert Wimmer. 1998-2001. Development of a Biosensor to Predict Activated Sludge Deflocculation and the Link Between Chlorination and Potassium Efflux. Current affiliation – environmental engineering consulting.
36. Arnaud Delahaye. 1997-1998. Distribution and Characteristics of Biomass in an Upflow Biological Aerated Filter. Affiliation upon graduation – Civil servant in France.
37. Kari Husovitz. 1997-1998. The Influence of Hydraulic Loading Rate on Nitrification Performance in a Two-Stage Biological Aerated Filter Pilot System. Current affiliation – environmental engineering consulting.
38. Kevin Gilmore. 1997-1999. Using Oligonucleotide Probes to Characterize Nitrification in a Two-Stage Pilot Plant Scale Biological Aerated Filter System. Current affiliation – Associate Professor, Bucknell University.
39. Jeff McGinnis. 1996-2003. Biodegradation and Dewatering of an Industrial Waste Oil. Current affiliation – environmental engineering consulting.
40. Jennifer Phillips. 1996-1997. Denitrification or Recirculating Aquaculture System Waters Using an Upflow Biofilter and a Fermented Substrate. Current affiliation – environmental engineering consulting.
41. Kristina Perri. 1996-1997. The Effectiveness of Multiple Redox Treatment Strategies on the Treatability of a High Strength Industrial Wastewater. Current affiliation – environmental engineering consulting.
42. James Drew Fetting. 1995-1998. A Study of the Patterns, Stoichiometry, and Kinetics of Microbial BTX Degradation Under Denitrifying Conditions by an Activated Sludge Consortium Receiving a Mixed Waste. Current affiliation – environmental engineering consulting.
43. Michelle Smith. 1995-1996. The Effect of Cation Addition on the Settling and Dewatering Properties of an Industrial Activated Sludge. Affiliation upon graduation – environmental engineering consulting in Canada.
44. Erika Lubkowitz (Bailey). 1995-1996. Biological Treatment Schemes for Preventing Oxime Inhibition of Nitrification. Current affiliation – environmental engineering consulting.

45. Patrick Brooks. 1995-1996. An Investigation of Temperature Effects on Denitrifying Bacterial Populations in a Biological Nutrient Removal System. Current affiliation – environmental engineering consulting.

**Ph.D. Dissertations, Student Placement and Nationally Recognized Achievements by Mentees**

1. Brittany Brown Hicks. 2019 – 2024 (anticipated). Project being defined. *National Achievement*: Ford Foundation Predoctoral Fellowship.
2. Alyssa Schubert. 2018 – 2023 (anticipated). Crowd-sourced water quality monitoring and community access to water monitoring.
3. Lucinda Li. 2018 – 2023 (anticipated). The impact of urine derived fertilizers on soil health (co-advised with Krista Wigginton).
4. Enrique Rodriguez. 2018 – 2022 (anticipated). Suspect screening, effect directed analysis and chemical risk of resource efficiency processes (co-advised with Krista Wigginton).
5. Hollie Adejumo. 2017 – 2022 (anticipated). The Toxicity and Transformation of Nitrogenated Disinfection Byproducts in the Human Gut (co-advised with Laura Rozek). *National Achievement*: NSF Graduate Research Fellowship.
6. Avery Carlson. 2018 – 2021 (anticipated). Project topic being developed (co-advised with Glen Daigger).
7. Brett Wagner. 2016 – 2021 (anticipated). Membrane aerated biofilm reactor technology (co-advised with Glen Daigger). *National Achievement*: NSF Graduate Research Fellowship.
8. Sara Troutman. 2015-2020. Integrated urban water infrastructure systems modeling at the green and grey infrastructure interface. (co-advised with Branko Kerkez). *Current Affiliation*: Xylem, Inc. *National Achievement*: NSF Graduate Research Fellowship.
9. Zerihun Bekele Alemayehu. 2015-2020. Use of sensor-mediated controls to achieve enhanced, low energy nitrogen removal during mainstream wastewater treatment. (Co-advised with Charles Bott, Hampton Roads Sanitation District). *Current Affiliation*: Engineer with BASF Corporation.
10. Chia-Chen Wu. 2013- 2018. Bacterial colonization of point-of-use (PoU) drinking water filters, selection of opportunistic pathogens and presence of antibiotic resistance genes. (Co-advised with Terese Olson). *Current Affiliation*: Postdoctoral Research Associate, Wayne State University
11. Heather Goetsch. 2014 –2018. Evaluating the benefits and risks of source separation as a nutrient management strategy. (Co-advised with Krista Wigginton). *Current Affiliation*: Department of Energy. *National Achievement*: AAAS Fellow with the Dept of Energy.
12. Jeseth Delgado-Vela. 2012 –2018. NSF Fellowship Recipient and Ford Foundation Fellow. Nitrogen and Sulfur Cycling During Wastewater Treatment. (Co-advised with Greg Dick). *Current Affiliation*: Assistant Professor, Howard University, Washington D.C. *National Achievements*: NSF Graduate Research Fellowship; Ford Foundation Fellowship; AEESP Conference Best Student Presentation.
13. Lauren Stadler. 2010 – 2015. Fate of trace contaminants in bacterial communities under low dissolved oxygen environments. *Current Affiliation*: Assistant Professor, Rice University, Houston. *National Achievement*: NSF Graduate Research Fellowship; 2016 CH2M/AEESP Best Dissertation Award; AEESP Conference Best Student Presentation.
14. Sherri M. Cook. 2008-2014. Sustainable Waste Management: Modeling and Decision Strategies for Unused Medications and Wastewater Solids (Co-advised with Steve Skerlos). *Current Affiliation*: Assistant Professor, University of Colorado, Boulder. *National Achievement*: NSF Graduate Research Fellowship
15. Jeremy S. Guest. 2007-2012. Sustainable design of wastewater treatment systems: Evaluations of operational flexibility and phototrophs for resource recovery. (Co-advised with Steve Skerlos). *Current Affiliation*: Associate Professor, University of Illinois, Urbana-Champaign. *National Achievements*: 2014 NSF CAREER Award Recipient; 2016 Paul L. Busch Award, Water Research Foundation.
16. Ameet J. Pinto. 2005-2009. Upset Events at Wastewater Treatment Plants: Implications for Mitigative Strategy Development and Bioreactor Microbial Ecology. *Current Affiliation*: Assistant Professor, Northeastern University, Boston. *National Achievements*: 2018 NSF CAREER Award Recipient; 2018 ISME/IWA Rising Star Bio Cluster Award; 2019 Paul L. Busch Award, Water Research Foundation .

17. Wendell Khunjar. 2004-2009. Elucidating Factors that Impact the Removal of Organic Microconstituents by Heterotrophic and Ammonia Oxidizing Bacteria. *Current Affiliation*: Hazen and Sawyer Consultants.
18. Martin Musabyimana. 2005-2008. Deammonification Process Kinetics and Inhibition Evaluation. *Current Affiliation*: East Bay Municipal Utility District, San Francisco, CA.
19. Kevin R. Gilmore. 2005-2008. Treatment of High-Strength Nitrogen Wastewater With a Hollow-Fiber Membrane-Aerated Biofilm Reactor: A Comprehensive Evaluation. *Current Affiliation*: Associate Professor, Bucknell University.
20. Jocelyn Fraga Muller. 2002-2006. The Role of Multidrug Efflux Pumps in the Stress Response of *Pseudomonas aeruginosa* to Organic Contamination. (Co-advised with Ann Stevens) *Current Affiliation*: Community College Instructor.
21. Ines D. S. Henriques. 2001-2006. The Response of Activated Sludge Cultures to Toxic Chemicals: Process Performance Effects, Role of Floc Structure, and Detection of Physiological Changes by Footprinting Methods. *Current Affiliation*: Business CEO, Portugal. National Achievement: WEFTEC Best Poster 1<sup>st</sup> Place, 2003.
22. Richard T. Kelly II. 2001-2005. Chemical Inhibition of Nitrification: Evaluating Methods to Detect and Characterize Inhibition and the Role of Selected Stress Responses Upon Exposure to Oxidative and Hydrophobic Toxins. *Current Affiliation*: Brown and Caldwell, Seattle, Washington.
23. R. David Holbrook. 2000-2003. The Role of Colloids in Defining the Fate of Endocrine System Disrupting Chemicals in Wastewater Treatment Systems (Co-advised with Dr. John Novak). *Current Affiliation*: Chief, Surface and Microanalysis Sciences Division, National Institute of Standards and Technology. *National Achievement*: 2010 PECASE (Presidential Early Career Award for Scientists and Engineers) recipient.
24. Charles B. Bott. 1997-2001. Elucidating the Role of Toxin-Induced Microbial Stress Responses in Biological Wastewater Treatment Process Upset. Affiliation upon graduation: environmental engineering consulting, then Assistant and Associate Professor at Virginia Military Institute. *Current Affiliation*: Director of Water Technology and Research, Hampton Roads Sanitation District, Virginia. *National Achievements*: Parsons Engineering Science/AEESP Doctoral Thesis Award; AEESP Fred Pohland Medal.
25. Guihua Ma. 1995-1999. The Kinetics, Biochemical Patterns, and Microbial Ecology in Multiredox Activated Sludge Systems Treating BTX Containing Wastewater. *Current Affiliation*: KCI, Inc., Baltimore, MD.

#### **Post-Doctoral Research Associates**

1. William Tarpeh, 2017-2018. Pharmaceutical transformation products through urine-derived fertilizer processing technologies. Co-advised with K. R. Wigginton. *Current Affiliation*: Assistant Professor of Chemical Engineering, Stanford University.
2. Rebecca Lahr, 2015-2016. Microbial fate in source-separated urine. Co-advised with K. R. Wigginton. *Prior Affiliation*: Assistant Professor, Michigan State University.
3. Dr. Kelly Martin. 2013 – 2015. Innovative, Low Energy Nitrogen Removal from Anaerobic Effluents. *Current Affiliation*: Black and Veatch, Inc.
4. Dr. Sudeshna Ghosh. 2008-2012. Chemical stressor-induced antibiotic resistance. *Current Affiliation*: Self Employed.
5. Dr. Kartik Chandran. 2004-2005. Chemical stress mechanisms in nitrifying bacteria. *Current Affiliation*: Associate Professor, Columbia University. *National Achievements*: NSF CAREER Award recipient; 2015 MacArthur Fellow; 2010 Paul L. Busch Award, Water Research Foundation.
6. Dr. Jane Duncan. 1998-1999. Heat shock protein expression in response to chemical stress in activated sludge. *Current Affiliation*: Research Scientist, Dept of Biochemistry, Virginia Tech.
7. Dr. Kathy Terlesky. 1996-1997. Heat shock protein expression in response to chemical stress in activated sludge. *Current Affiliation*: Vice President, Division Manager, SAIC, Inc., Charlottesville, Virginia.

## PUBLICATIONS

### Textbooks

1. Grady, C. P. L. Jr., G. T. Daigger, N. G. Love and C. Filipe. 2011. *Biological Wastewater Treatment*, 3<sup>rd</sup> Edition, Taylor and Francis Publishers.

### Peer-Reviewed Journal Articles (undergraduate students; graduate students; post-doctoral research associates; \*corresponding or senior author)

2. Wigginton, K. R., P. J. Arts, H. Clack, W. J. Fitzsimmons, M. Gamba, K. R. Harrison, W. LeBar, A. S. Luring, L. Li, W. W. Roberts, N. Rockey, J. Torreblanca, C. Young, L. G. Anderegg, A. M. Cohn, J. M. Doyle, C. M. Meisenhelder, L. Raskin, N. G. Love\*, and K. S. Kaye\*. 2021. Validation of N95 filtering facepiece respirator decontamination methods available at a large university hospital. *Open Forum Infectious Diseases*. Accepted. DOI: 10.1093/ofid/ofaa610.
3. Delgado-Vela, J., L. A. Bristow, H. K. Marchant, N. G. Love and G. J. Dick\*. 2021. Sulfide alters microbial functional potential in a methane and nitrogen cycling biofilm reactor. *Environmental Microbiology*. Accepted.
4. Hilton\*, S., G. Keoleian, G. T. Daigger, B. Zhou, N. G. Love. 2021. Life-cycle assessment of urine diversion and conversion to fertilizer products at the city scale. *Environmental Science & Technology*. 55:593-603.
5. Anderegg, L., J. Doyle, M. L. Gardel, A. Gupta, C. Hallas, Y. Lensky, N. G. Love, B. A. Lucas, E. Mazenc, C. Meisenhelder, A. Pillarsetti, D. Ranard, A. H. Squires, J. Vechakul, N. B. Vilas, S. Williams, D. Wilson, \*Chen, T. and the N95DECON consortium. 2021. Heat and humidity for bioburden reduction of N95 filtering facepiece respirators. *Applied Biosafety*. In press. DOI:10.1089/apb.20.0053.
6. Rockey, N., P. J. Arts, L. Li, K. R. Harrison, K. Langenfeld, W. J. Fitzsimmons, A. S. Luring, N. G. Love, K. S. Kaye, L. Raskin, W. W. Roberts, B. Hegarty, K. R. Wigginton\*. 2020. Humidity and deposition solution play a critical role in virus inactivation by heat treatment on N95 respirators. *mSphere*. 5(5):e00588-20. DOI:10.1128/mSphere.00588-20.
7. Admassu Abate, T., A. F. Desta, F. Assefa, N. G. Love\*. 2020 The performance of an Ethiopian tannery wastewater treatment system based on chemical and microbiological water quality. *Water Environment Research*. In press. DOI:10.1002/wer.1364.
8. Segrè Cohen\*, A., N. G. Love, J. Árvai. 2020. Communicating the risks and benefits of human urine-derived fertilizer. *Sustainability*. 12(23): 9973. DOI:10.3390/su12239973.
9. Troutman, S. C., N. G. Love and B. Kerkez\*. 2020. Balancing water quality and flows in combined sewer systems using real-time control. *Environmental Science: Water Research & Technology*. 6:1357-1369. DOI: 10.1039/c9ew00882a.
10. Schreiber\*, T., S. Opperman, K. Nace, A. N. Palmeyer, N. Love and R. Hardin. 2020. Leveraging integrative research for inclusive innovation: urine diversion and re-use in agriculture. *Elementa Science of the Anthropocene*. 8:12. doi.org/10.1525/elementa.408
11. Cohen, A. S.\*, N. G. Love, K. K. Nace and J. Árvai. 2020. Consumers' acceptance of agricultural fertilizers derived from diverted and recycled human urine. *Environmental Science & Technology*. 54(8):5297-5305. DOI:10.1021/acs.est.0c00576.
12. Carlson, A. L., G. T. Daigger\*, N. G. Love and E. Hart. 2020. Multi-year diagnosis of unpredictable fouling occurrences in a full-scale membrane bioreactor. *Water Science and Technology*. 82(3):524-536. DOI: 10.2166/wst.2020.354.
13. Bekele, Z. A., J. Delgado Vela, C. B. Bott, N. G. Love\*. 2020. Sensor-mediated granular sludge reactor for nitrogen removal and reduced aeration demand using a dilute wastewater. *Water Environment Research*. 92(7):1006-1016. DOI: 10.1002/wer.1296. Honor: Editor selected for issue cover art
14. Goetsch, H. E., N. G. Love, K. R. Wigginton\*. 2020. Fate of extracellular DNA in the production of fertilizers from source-separated urine. *Environmental Science & Technology*. 54 (3):1808-1815. DOI:10.1021/acs.est.9b04263.
15. Brown, M., F. Karimova, N. Love, K. Pagilla, C. Bott, Z. He, B. Liner and S. Merther. 2020. University-utility partnerships: Best practices for water innovation and collaboration. *Water Environment Research*. 92(3):314-319. DOI:10.1002/wer.1252.

16. Brouwer, A. F., M. C. Eisenberg, N. G. Love, J. N. S. Eisenberg\*. 2019. Phenotypic variations in persistence and infectivity between and within environmentally transmitted pathogen populations impact population-level epidemic dynamics. *BMC Infectious Diseases*, 19(1):449-461. DOI:10.1186/s12879-019-4054-8.
17. Daigger\*, G. T., S. Sharvelle, M. Arabi, N. G. Love. 2019. Progress and Promise Transitioning to One Water/Resource Recovery Integrated Urban Water Management Systems. *Journal of Environmental Engineering*. 145 (10), 10 pages. DOI: 10.1061/(ASCE)EE.1943-7870.0001552. Recipient of the ASCE Wesley W. Horner Award.
18. McFarland, A. R., L. Larsen\*, K. Yeshitela, A. N. Engida and N. G. Love. 2019. Guide for using green infrastructure in urban environments for stormwater management. *Environmental Science: Water Research & Technology*, 5(4):643-659. DOI:10.1039/C8EW00498F.
19. Liang, S., S. Qu, Q. T. Zhao, X. L. Zhang, G. T. Daigger, J. P. Newell, S. A. Miller, J. X. Johnson, N. G. Love, L. X. Zhang, Z. F. Yang, M. Xu\*. 2019. Quantifying the urban food-energy-water nexus: The case of the Detroit Metropolitan Area. *Environmental Science & Technology*, 53(2):779-788. DOI:10.1021/acs.est.8b06240.
20. Stadler, L. B. and N. G. Love\*. 2019. Oxygen half-saturation constants for pharmaceuticals in activated sludge and microbial community activity under varied oxygen levels. *Environmental Science & Technology*. 53(4):1918-1927. DOI:10.1021/acs.est.8b06051.
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22. Byrne, B. G., S. McColm, S. P. McElmurry, P. E. Kilgore, J. Soback, R. Sadler, N. G. Love, M. S. Swanson\*. 2018. Prevalence of infection-competent serogroup 6 *Legionella pneumophila* within premise plumbing in Southeast Michigan. *mBio*, 9(1): DOI: 10.1128/mBio.00016-18.
23. Zahran, S., S. P. McElmurry, P. E. Kilgore, D. Mushinski, J. Press, N. G. Love, R. C. Sadler, M. S. Swanson\*. 2018. Assessment of the Legionnaires' Disease Outbreak in Flint, Michigan. *Proceedings of the National Academy of Sciences USA*, 115(8):E1730-E1739. DOI: 10.1073/pnas.1718679115.
24. Goetsch, H. E., L. B. Zhao, M. Gnegy, M. J. Imperiale, N. G. Love, K. R. Wigginton\*. 2018. The fate of urinary tract virus BK human polyomavirus in source-separated urine. *Applied and Environmental Microbiology*, 84(7): DOI:10.1128/AEM.02374-17.
25. Stadler, L. B.†, J. Delgado Vela†, S. Jain, G. J. Dick, and N. G. Love\*. 2017. Elucidating the impact of microbial community biodiversity on pharmaceutical biotransformation during wastewater treatment. *Microbial Biotechnology*, 11(6):995-1007. DOI: 10.1111/1751-7915.12870. †These authors contributed equally to this work.
26. Mullen, R. A., K. R. Wigginton, A. Noe-Hays, K. Nace, N. G. Love, C. B. Bott and D. S. Aga\*. 2017. Optimizing extraction and analysis of pharmaceuticals in human urine, struvite, food crops, soil, and lysimeter water by liquid chromatography-tandem mass spectrometry. *Analytical Methods*. 9(41):5952-5962.
27. Troutman, S. C., N. Schambach, N. G. Love and B. Kerkez\*. 2017. A self-calibrating framework for the sensor-driven and dynamical modeling of combined sewer systems. *Water Research*, 126:88-100. DOI: 10.1016/j.watres.2017.08.065
28. Wu, C.-C., S. Ghosh, K. J. Martin, A. J. Pinto, V. J. Denef, T. M. Olson, N. G. Love\*. 2017. The microbial colonization of activated carbon block point-of-use (PoU) filters with and without chlorinated phenol disinfection byproducts. *Environmental Science: Water Research & Technology*, 3(5):830-843. DOI: 10.1039/C7EW00134G.
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31. Lahr, R.H., H. E. Goetsch, S. J. Haig, A. Noe-Hays, N. G. Love, D. S. Aga, C. B. Bott, B. Foxman, J. Jimenez, T. Luo, K. Nace, K. Ramadugu and K. R. Wigginton\*. 2016. Urine bacterial community

- convergence through fertilizer production: storage, pasteurization, and struvite precipitation. *Environmental Science and Technology*, **50**(21):11619-11626.
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  35. Delgado Vela, J., L. B. Stadler, K. J. Martin, L. Raskin, C. B. Bott and N. G. Love\*. 2015. Prospects for biological nitrogen removal from anaerobic effluents during mainstream wastewater treatment. *Environmental Science and Technology Letters*, **2**(9):234-244. DOI: 10.1021/acs.estlett.5b00191.
  36. Muller, J. F., S. Ghosh, K. Ikuma, A. M. Stevens and N. G. Love\*. 2015. Chlorinated phenol-induced physiological antibiotic resistance in *Pseudomonas aeruginosa*. *FEMS Microbiology Letters*, **362**(21):fnv172, DOI: 10.1093/femsle/fnv172.
  37. Jimenez\*, J., C. Bott, N. Love, and J. Bratby. 2015. Source separation of urine as an alternative solution to nutrient management in biological nutrient removal treatment plants. *Water Environment Research*. **87**(12):2120-2129. DOI:10.2175/106143015X14212658613884.
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  40. Smith†, A. L., L. B. Stadler†, L. Cao, N. G. Love, L. Raskin, and S. J. Skerlos\*. 2014. Navigating wastewater energy recovery strategies: A life cycle comparison of anaerobic membrane bioreactor and conventional treatment systems with anaerobic digestion. *Environmental Science and Technology*, **48**:5972-5981. DOI/10.1021/es5006169. †These authors contributed equally to this work.
  41. Syed, A. K., S. Ghosh, N. G. Love, B. R. Boles\*, 2014. Triclosan promotes *Staphylococcus aureus* nasal colonization, *mBio*, **5**(2):e01015-13. doi:10.1128/mBio.01015-13.
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  45. Gilmore\*, K.R., A. Terada, B. F. Smets, S. Lackner, J. L. Garland, and N. G. Love. 2013. Autotrophic nitrogen removal in a membrane-aerated biofilm reactor under continuous aeration: A demonstration. *Environmental Engineering and Science*, **30**(1):38-45. DOI: 10.1089/ees.2012.0222.
  46. Smith, A. L., L. B. Stadler, N. G. Love, S. Skerlos, and L. Raskin\*. 2012. Perspectives on anaerobic membrane bioreactor treatment of domestic wastewater: A critical review. *Bioresour. Technology*, **122** (Special Issue, SI):149-159. DOI: 10.1016/j.biortech.2012.04.055
  47. Pinto, A. J. and N. G. Love\*. 2012. Bioreactor function under perturbation scenarios is affected by interactions between bacteria and protozoa. *Environmental Science and Technology*, **46**(14):7558-7566. DOI: 10.1021/es301220f



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49. Keen, O. S., S. Baik, K. G. Linden\*, D. S. Aga and N. G. Love. 2012. Enhanced biodegradation of carbamazepine after UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation. *Environmental Science and Technology*, 46:6222-6227. DOI: 10.1021/es300897u.
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#### Reviews, Discussions, Editorials and General Technical News Pieces

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#### Refereed Conference Presentations (presenter in bold)

145. **Hicks, B.**, C. C. Wu, M. B. Perri, Z. Zhao, M. Zervos, S. P. McElmurry, N. G. Love. Isolating and characterizing *Stenotrophomonas maltophilia* from drinking water point-of-use filters in an aged distribution system. Poster presentation. International Water Association Microbial Ecology of Water Engineering (MEWE) Biannual Conference, Hiroshima, Japan, November 17-20, 2019.
146. **Love, N. G.** The International Water Association Specialists Group on Environmental Engineering Education: History and Background. Podium Presentation for pre-conference workshop. International Water Association Microbial Ecology of Water Engineering (MEWE) Biannual Conference, Hiroshima, Japan, November 17-20, 2019
147. Love, N.G., A. Noe-Hays, D. Aga, J. Arvai, A. Cohen, **G. Daigger**, A. Davis, R. Dickman, R. Hardin, S. Hilton, G. Keoleian, L. Li, N. Lowe, R. Mullen, K. Nace, E. Rodriguez, T. Schreiber, S. Skerlos, W. Tarpeh, K. Wigginton. Achieving Nutrient Resource Efficiency through Urine Separation, Processing and Reuse: A Comprehensive Study. Podium Presentation. 3<sup>rd</sup> IWA Resource Recovery Conference, Venice, Italy, September 2019.
148. **Carma Lewis\***, Elizabeth Burtch\*, Nick J. Lowe, Audrey Rose Zarb, **Alyssa Schubert**, Janée Rankin\*, Lydia Starrs\*, Rochelle Kelly\*, Richard Kelley\*, Alyssa Schubert, Enrique Rodriguez, Lucinda Li, Audrey Pallmeyer, Shawn P. McElmurry, Nancy G. Love (\*community collaborators from Flint, Ms. Lewis and Ms. Schubert gave the talk). Community-driven Train-the-Trainers program for point-of-use

- filter maintenance in communities affected by drinking water lead contamination. Podium Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
149. **Tarpeh, W., Y. Du, C. Carpenter, D. Helbling, N. G. Love, K. R. Wigginton.** Suspect screening of pharmaceuticals during urine treatment processes. Podium Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  150. **Goetsch, H., L. Li, N. G. Love and K. R. Wigginton.** Understanding microbial agents in source-separated urine for the production of urine-derived fertilizers. Podium Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  151. **A. Noe-Hays, A. Davis, N. J. Lowe, J. Eraci, Y. J. Ooi, A. Sabido, K. Nace, E. Rodriguez, K. Wigginton, N. Love.** Onsite production of concentrated urine-derived fertilizer in building-scale systems using remote process monitoring and control. Poster Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  152. **Kerkez, B., N. G. Love, R. L. McCaffery, M. Bartos, J. Montgomery, E. TerBeek.** A First Year College Course on Smart Water Systems. Poster Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  153. **Cohen, A. S., N. G. Love, J. Árvai.** Consumers' preferences and perceptions regarding the use of urine-derived fertilizer for domestic agriculture. Poster Presentation. Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  154. **Pallmeyer, A. and N. G. Love.** Achieving Resource Efficiency with Resource Recovery: Introduction the NSF INFEWS Project on Urine-Derived Fertilizers. Podium Presentation. 91<sup>st</sup> Annual Water Environment Federation Technical Exhibition and Conference, New Orleans, LA, October 1-3, 2018.
  155. **Bekele, Z., J. Delgado Vela, C. B. Bott, N. G. Love.** Sensor-mediated Control for Aerobic Granular Sludge Process Treating Mainstream Anaerobic Effluent. Podium presentation. 91<sup>st</sup> Annual Water Environment Federation Technical Exhibition and Conference, New Orleans, LA, October 1-3, 2018.
  156. **Troutman, S.C., N. G. Love and B. Kerkez.** Evaluating market-based algorithms for system-level TSS control. 13<sup>th</sup> International Conference on Hydroinformatics. Palermo, Italy, July 1-6, 2018.
  157. **Troutman, S. C., N. G. Love and B. Kerkez.** Market-based real-time control of TSS across large sewer systems. World Environmental & Water Resources Congress, EWRI. Minneapolis, MN, USA. June 3-7, 2018.
  158. **Tarpeh, W., D. S. Aga, N. G. Love, K. Wigginton.** Assessing Risks from Pharmaceuticals and Transformation Products in Urine-Derived Fertilizers. Podium presentation. American Chemical Society Annual Meeting. New Orleans, LA. March 2018.
  159. **Troutman, S.C., N. G. Love and B. Kerkez.** Evaluating market-based algorithms for system-level TSS control. Podium presentation. 13<sup>th</sup> International Conference on Hydroinformatics. Palermo, Italy, July 1-6, 2018.
  160. **Wagner, B., G. T. Daigger, N. G. Love.** Partial nitrification/anammox membrane aerated biofilm reactor for nitrogen removal from aerobic secondary effluent. Podium presentation. Water Environment Federation Nutrient Removal and Recovery Conference, Raleigh North Carolina, June 18-21, 2018. Presentation with associated conference paper.
  161. **Love, N. G., A. Noe-Hays, K. R. Wigginton, L. Macpherson, D. S. Aga, C. B. Bott, G. T. Daigger, A. P. Davis, J. Eisenberg, A. Gagnon, Z. Getaneh, H. Goetsch, P. Gooding, R. Hardin, S. Hilton, J. Jimenez, G. Keoleian, N. J. Lowe, W. Mui, R. Mullen, K. Nace, A. Pallmeyer, N. Patel, D. Raye-Leonard, E. E. Rodriguez, T. Schreiber, A. Sinanaj, W. Tarpeh, R. Wombacher, B. Zhou.** Advancing Nutrient Recovery through Urine-Derived Fertilizers (UDF) in the United States. Podium presentation. Water

- Environment Federation Nutrient Removal and Recovery Conference, Raleigh North Carolina, June 18-21, 2018. Presentation with associated conference paper.
162. **Troutman, S. C., N. G. Love and B. Kerkez.** Market-based real-time control of TSS across large sewer systems. Podium presentation. World Environmental & Water Resources Congress, EWRI. Minneapolis, MN, USA. June 3-7, 2018.
  163. **Rodriguez, E., W. Tarpeh, H. Clack, N. G. Love, K. Wigginton.** 2018. Degradation of pharmaceuticals in synthetic urine treated with plasma. Poster Presentation. American Chemical Society Meeting, New Orleans, LA, March 18-22, 2018.
  164. **Zerihun A. Bekele, Imre Takacs, Charles B. Bott, and Nancy G. Love.** Harnessing biofilm models to advance nitrogen removal from mainstream anaerobic wastewater treatment processes. Poster presentation. WRRMod2018 conference, Quebec, Canada, March 2018.
  165. **Tarpeh, W., D. S. Aga, N. G. Love, K. Wigginton.** Assessing Risks from Pharmaceuticals and Transformation Products in Urine-Derived Fertilizers. Podium presentation. American Chemical Society Annual Meeting. New Orleans, LA. March 2018.
  166. **Carlson, A., N. G. Love, G. T. Daigger and E. Hart.** Trouble-shooting long-term biofouling in full-scale membrane bioreactor. International Water Association Young Water Professionals Conference, South Africa. December 10-14, 2017.
  167. **Goetsch, H.E., Love, N.G., Imperiale, M.J., Wigginton, K.** Fate of Human BK polyomavirus through urine diverted for fertilizer. 2nd International Resource Recovery Conference: New York City, NY, USA August 5-9, 2017.
  168. **Delgado Vela, J., Dick, Gregory J., Love, N.G.** The Impact of Sulfide on Nitrification: Implications for Nitrification Processes. Fifth International Conference on Nitrification and Related Processes (ICoN5): Early Career and Graduate Student Workshop. Vienna, Austria, July 23-27, 2017.
  169. **Zerihun A. Bekele, Jeseth Delgado Vela, Kelly J. Martin, Charles B. Bott, and Nancy G. Love.** Using sensor-mediated control and modeling to develop an aerobic granular sludge technology for low energy nitrogen. Podium presentation. AEESP Biannual Conference, Ann Arbor, Michigan, June 20-22, 2017.
  170. **Troutman, S. C., N. G. Love, B. Kerkez.** 2017. Controlling a Sewer Network as an Extension of the Wastewater Treatment Plant. Podium presentation. AEESP Biannual Conference, Ann Arbor, Michigan, June 20-22, 2017
  171. **Chia-Chen Wu, Katie Stroh, Shawn P. McElmurry, Terese M. Olson, and Nancy G. Love.** Understanding the transmission of planktonic and sessile bacteria across point-of-use (PoU) filters. Podium presentation. AEESP Biannual Conference, Ann Arbor, Michigan, June 20-22, 2017
  172. **Delgado Vela, J., Dick, Gregory J., Love, N.G.** Managing Healthy Activated Sludge Communities: Understanding the Impact of Sulfide on Nitrogen Removal. Podium presentation. AEESP Biannual Conference, Ann Arbor, Michigan, June 20-22, 2017
  173. **Bekele, Z. A., Jeseth Delgado Vela, Kelly J. Martin, Charles B. Bott, and Nancy G. Love.** Aerobic granular sludge process optimization and modeling for mainstream anaerobically treated wastewater. Poster presented at IWA Biofilm Reactors Conference, Dublin. Ireland, May 2017
  174. **Troutman, S. C., N. G. Love, B. Kerkez.** 2017. Understanding Combined Sewer Flow Dynamics through Data-Driven Modeling. World Environmental & Water Resources Congress, EWRI. Sacramento, CA, USA. May 21-25 2017.
  175. **Zerihun A. Bekele, Jeseth Delgado Vela, Kelly J. Martin, Charles B. Bott, and Nancy G. Love.** Aerobic granular sludge process optimization and modeling for mainstream anaerobically treated wastewater. Poster presented at IWA Biofilm Reactors Conference, Dublin. Ireland, May 2017
  176. **Goetsch, H., M. Imperiale, N. G. Love, K. R. Wigginton.** 2017. Fate of human polyomavirus in urine diverted for fertilizer use. American Chemical Society 253<sup>rd</sup> National Meeting, San Francisco, CA, April 2017.



177. **Goetsch, H., M. Imperiale, N. G. Love, K. R. Wigginton.** Refining liquid gold: Fate of human polyomavirus in urine diverted for fertilizer use. Oral presentation. Borchardt conference, Ann Arbor, Michigan, February 2017.
178. **Troutman, S., N. G. Love, B. Kerkez.** Use of Real-Time Sensor Data in City-Scale Water Modeling. Poster presentation presented at two different conferences: Borchardt conference, Ann Arbor, Michigan, February 2017; and CUAHSI Biennial Symposium
179. **Zhao, Z., M. P. Runho, C.-C. Wu, A. Zarb, T. M. Olson, S. P. McElmurry, and Nancy G. Love.** 2017 Effect of flushing on microbiological quality of water effluent from point-of-use filters. Poster presentation, Borchardt conference, Ann Arbor, Michigan, February 2017.
180. **Alemayehu, Z., C. B. Bott and N. G. Love.** 2017. Achieving nitrogen removal from mainstream anaerobically treated wastewater using aerobic granular sludge with low aeration rate. Poster presentation, Borchardt conference, Ann Arbor, Michigan, February 2017.
181. **Delgado Vela, J., Z. A. Bekele, A. McFarland, A. Arcelay, K. J. Martin, C. B. Bott, G. J. Dick and N. G. Love.** 2016. The membrane aerated biofilm reactor for nitrogen removal from mainstream anaerobic processes. 89<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), New Orleans, LA, Sept 25-28, 2016.
182. **Desta, A. F., N. G. Love, K. R. Wigginton, H. Goetsch and R. Lahr.** 2016. Keynote lecture: Metagenomic analysis of biological contaminants in source-separated urine undergoing sanitization.: A way towards sustainable development in low-income countries. Microbial Ecology and Biofilm Specialists Conference, Copenhagen, Denmark, Sept 3-5, 2016.
183. **Stadler, L. and N. G. Love.** 2016. Associations between microbial community activity, pharmaceutical biotransformation rates, and DO concentration in wastewater treatment. Microbial Ecology and Biofilm Specialists Conference, Copenhagen, Denmark, Sept 3-5, 2016.
184. **Goetsch, H., M. Imperiale, N. G. Love and K. R. Wigginton.** 2016. Refining liquid gold: Fate of human polyomavirus in urine diverted for fertilizer use. Microbial Ecology and Biofilm Specialists Conference, Copenhagen, Denmark, Sept 3-5, 2016.
185. **Wu, C.-C., T. M. Olson and N. G. Love.** 2016. Prevalence of Antibiotic Resistance Genes (ARGs) in Point-of-Use (PoU) Drinking Water Filters. Microbial Ecology and Biofilm Specialists Conference, Copenhagen, Denmark, Sept 3-5, 2016.
186. **Troutman, S., N. G. Love, B. Kerkez.** 2016. Predicting combined sewer flow through use of real-time, city-scale sensor data. Oral presentation, World Environmental and Water Resources Congress, ASCE, West Palm Beach, Florida, May 2016.
187. **Goetsch, H., R. Mullen, R. Lahr, A. Noe-Hays, D. Aga, C. Bott, B. Foxman, J. Jimenez, N. Love, T. Luo, K. Nace, K. Ramadugu, K. Wigginton.** 2015. Fate of pharmaceutical and biological contaminants through the preparation and application of urine derived fertilizers. International Water Association First Resource Recovery Conference. Ghent, Belgium, Aug 30-Sept 2, 2015.
188. **Delgado Vela, J., Martin, K. J., McFarland, A., Beaton, N., Stadler, L.B., Skerlos, S.J., Raskin, L., Bott, C. B., Love, N.G.** Removing nitrogen from effluents of anaerobic wastewater treatment processes: Understanding control and operation through biofilm modeling. 250th American Chemical Society National Meeting and Exhibition. Boston, MA, August 16-20, 2015. (podium).
189. **Delgado Vela, J., K. J. Martin, A. R. McFarland, N. L. Beaton, L. B. Stadler, C. B. Bott, L. Raskin, S. J. Skerlos, N. G. Love, A. Salveson, T. Rauch-Williams.** 2015. Advancing energy neutral wastewater treatment: removing nitrogen and dissolved methane from dilute anaerobic effluents. AEESP Biannual Conference, Yale University, June 14-16 (poster presentation).
190. **Stadler, L. B., J. Delgado Vela and N. G. Love.** 2015. Elucidating the relationship between wastewater treatment plant microbial diversity and pharmaceutical fate. AEESP Biannual Conference, Yale University, June 14-16 (podium presentation), *winner of best student paper award*.
191. **Goetsch, H., R., Lahr, R. Mullen, A. Noe-Hays, D. Aga, C. B. Bott, J. Jimenez, N. G. Love, K. Nace and K. Wigginton.** 2015. Fate or organic contaminants in urine-derived fertilizers. AEESP Biannual Conference, Yale University, June 14-16 (poster presentation).

192. **Lahr, R., H., Goetsch, A. Noe-Hays, D. Aga, C. B. Bott, B. Foxman, J. Jimenez, N. G. Love, T. Luo, R. Mullen, K. Nace, K. Ramadugu and K. Wigginton.** 2015. Microbial communities in urine separated for nutrient recovery. AEESP Biannual Conference, Yale University, June 14-16 (poster presentation).
193. **Stadler, L. B., J. Delgado Vela and N. G. Love.** 2015. Elucidating the relationship between wastewater treatment plant microbial diversity and pharmaceutical fate. American Society for Microbiology, New Orleans, LA, May 30-June 2 (Poster Presentation).
194. **Goetsch, H., R. Lahr, A. Desta, N. G. Love, C. Bott, A. Gagnon, K. Nace, A. Noe-Hays, D. S. Aga, R. Mullen, J. Jimenez, K. Wigginton,** 2015. Fate of pharmaceutical and biological contaminants through the preparation and application of urine-derived fertilizers. 88<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), Chicago, IL, Sept 27-30, 2015.
195. **Stadler, L., J. Delgado Vela and N. G. Love.** 2015. Impact of low dissolved oxygen and microbial community on pharmaceutical biotransformations during wastewater treatment. 88<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), Chicago, IL, Sept 27-30, 2015.
196. **Delgado-Vela, J., K. J. Martin, N. Beaton, A. McFarland, L. B. Stadler, C. B. Bott, S. J. Skerlos, L. Raskin, N. G. Love.** 2015. Nutrient removal from mainstream anaerobic processes using a membrane aerated biofilm reactor and a granular sludge sequencing batch reactor. 88<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), Chicago, IL, Sept 27-30, 2015.
197. **Delgado Vela J., Martin, K. J., Beaton, N., McFarland, A., Stadler, L., Bott, C. B., Raskin, L., Skerlos, S.J., and Love, N.G.** 2014. Nitrogen Removal Downstream of an Anaerobic Membrane Bioreactor for Domestic Wastewater Treatment. IWA Global Challenges: Sustainable Wastewater Treatment and Resource Recovery. Kathmandu, Nepal, October 26-30.
198. **Delgado Vela, J., Martin, K.J., Stadler, L.B., Bott, C. Skerlos, S.J., Raskin, L., Love, N.G.,** 2014. Nutrient Removal from Mainstream Anaerobic Effluents: Linking Biofilm Modeling to Experimental Design. 87<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), New Orleans, LA, September 28-October 1. (poster presentation)
199. **Stadler, L. B., Su, L., Aga, D. S., and Love, N. G.** 2014. Understanding the impact of low dissolved oxygen treatment on nitrifier community characteristics and micropollutant fate. 4<sup>th</sup> International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment. Iowa City, IA, August 19 – 22, 2014.
200. **Love, N. G.** 2014. Achieving resilience and sustainability in the global urban water sector – a role for environmental chemistry. Special Seminar Series: Women in Environmental Chemistry and Engineering, Abstract 312-ENVR, 248<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA, August 10-14. (podium presentation)
201. **Stadler, L. B., Su, L., Aga, D. S., and Love, N. G.** 2014. Understanding the impact of low dissolved oxygen treatment on nitrifier community characteristics and micropollutant fate. Abstract 415-ENVR, 248<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA, August 10 – 14, 2014. (podium presentation)
202. **Wu, C.-C., K. J. Martin, A. Perez De La Rosa, G. Ryskamp, N. G. Love and T. M. Olson.** 2014. Effect of disinfection by-products on antibiotic resistance in the bacterial communities of point-of-use (PoU) drinking water filters. Abstract 473-ENVR, 248<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA, August 10 – 14, 2014. (podium presentation)
203. **Lester, Y., N. G. Love, D. S. Aga, R. Singh and K. G. Linden.** 2014. Demonstrating advanced oxidation/biofiltration to remove emerging contaminants from wastewater: A pilot study. Abstract 130-ENVR, 248<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA, August 10 – 14, 2014. (podium presentation)
204. **Aga, D. S., K. G. Linden, N. G. Love, R. Singh, Y. Lester, O. S. Keen and S. Baik.** 2014. Identification of degradation products of carbamazepine and iopromide after UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation and

- biodegradation. 283-ENVR, 248<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA, August 10 – 14, 2014. (podium presentation)
205. **Stadler, L. B., Smith, A. L., Jain, A. K., Martin, K. J., Delgado Vela, J., Puente, P., Cao, L., Frenette, S., Bott, C. B., Rauch-Williams, T., Shimada, T., Salveson, A., Love, N. G., Raskin, L., and Skerlos, S. J.** 2014. Integrating Life Cycle Assessment and Experimental Research: Evaluating Anaerobic Membrane Bioreactors in Domestic Wastewater Treatment for Energy Recovery. Borchardt Conference. Ann Arbor, MI, February 25 – 26, 2014. (podium presentation)
  206. **Stadler, L. B., Su, L., Aga, D. S., and Love, N. G.** 2014. Understanding the impact of low dissolved oxygen treatment on nitrifier community characteristics and micropollutant fate. 4<sup>th</sup> International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment. Iowa City, IA, August 19 – 22. (podium presentation)
  207. **Stadler, L. B., Smith, A. L., Cao, L., Love, N. G., Raskin, L., and Skerlos, S. J.** 2013. Life Cycle Comparison of Emerging and Established Wastewater Energy Recovery Systems. In Mainstream Anaerobic Treatment Systems for Energy Neutral Wastewater Management Workshop at the 86<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), Chicago, IL, October 5 – 9.
  208. **Stadler, L.B., A.L. Smith, L. Cao, N.G. Love, L. Raskin, and S.J. Skerlos,** 2013. Energy Recovery from Wastewater: Life Cycle Comparison of Carbon Removal Technologies Upstream of Autotrophic Nitrogen Removal. *WEF/IWA Nutrient Removal and Recovery 2013: Trends in Resource Recovery and Use*, July 28-31, Vancouver, British Columbia, Canada.
  209. **Smith, A.L., T. Shimada, and L. Raskin,** 2013. Syntrophic interactions in full-scale two-phase anaerobic digesters determined by pyrosequencing. *5th International Conference on Microbial Ecology and Water Engineering Conference*, July 7-10, Ann Arbor, Michigan.
  210. **Stadler, L.B., A.L. Smith, L. Cao, N.G. Love, L. Raskin, and S.J. Skerlos,** 2013. Life cycle comparison of emerging and established wastewater energy recovery systems. Poster presentation. *2013 AEESP Education & Research Conference*, July 14-16, Denver, Colorado.
  211. **Delgado-Vela, J., Stadler, L.B., and Love, N. G.** 2013. Elucidating Biotransformation of Pharmaceuticals by Methanotrophic Bacteria. Association of Environmental Engineering & Science Professors 50<sup>th</sup> Anniversary Conference. Golden, CO, July 14 – 16.
  212. **Moline, C. J., Stadler, L. B., Su, L., Ernstoﬀ, A. S., Dapcic, A. D., Vela, J. D., Aga, D., and Love, N. G.** 2012. Pharmaceutical Fate Under Varying Redox Treatment Environments. Proceedings of the 85<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), New Orleans, LA, September 29 - October 3.
  213. **Smith, A. L., Stadler, L. B., Cao, L., Love, N. G., Raskin, L., and Skerlos, S. J.** 2012. Performance and environmental impacts of anaerobic membrane bioreactor for low-strength wastewater treatment, Proceedings of the 85<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), New Orleans, LA, September 29-October 3.
  214. **Jimenez, J., C. B. Bott, N. G. Love and J. Bratby.** 2012. Source separation of urine as an alternative solution to nutrient management in wastewater treatment plants: a model-based analysis. Water Environment Federation Technical Exhibition and Conference. New Orleans, LA. Sept 30-Oct 3, 2012. Podium presentation.
  215. **Love, N.G.** 2012. Challenges in predicting micropollutant fate in biological processes. WWTMod2012 workshop on modelling micropollutant fate in biological processes, Mont-Sainte-Anne, Québec, Canada, Feb 26-28, 2012. Podium presentation
  216. **Colby, A., Khunjar, W., Pinto, A., Ghosh, S., Raskin, L., Love, N.** Impact of Copper Stress on Nitrification Performance and the Ammonia Oxidizer Community Structure in Activated Sludge. *2011 AEESP Education & Research Conference*, Tampa, Florida, July 10-12, 2011.

217. **Smith, A.L., H.J. Dorer, N.G. Love, S.J. Skerlos, and L. Raskin.** 2011. Psychrophilic anaerobic membrane bioreactor for domestic wastewater treatment. *2011 AEESP Education & Research Conference*, Tampa, Florida, July 10-12, 2011.
218. **Smith, A.L., N.G. Love, S. Skerlos, and L. Raskin,** 2012. Effects of changes in temperature and hydraulic retention time on performance and environmental impacts of anaerobic membrane bioreactors for domestic wastewater treatment. *Leading-Edge Conference on Water and Wastewater Technologies*, June 3-7, Brisbane, Australia.
219. **Smith, A.L., Z. Li, H. Dorer, N.G. Love, S. Skerlos, and L. Raskin,** 2011. Energy recovery from domestic wastewater using anaerobic membrane bioreactors. *2011 Borchardt Conference*, February 23-24, Ann Arbor, Michigan.
220. **Guest, J. S., N. G. Love, S. Snowling, C. B. Bott, G. T. Daigger and S. J. Skerlos.** Quantitative sustainable design of wastewater treatment plants. *Water Environment Federation Technical Exhibition and Conference*. Los Angeles, CA. October 15-19, 2011. Podium presentation.
221. **Keen, O., S. Baik, K. Linden, D. Aga and N. G. Love.** 2011. Degradation of carbamazepine during UV/H<sub>2</sub>O<sub>2</sub> treatment of wastewater. *Water Environment Federation Technical Exhibition and Conference*. Los Angeles, CA. October 15-19, 2011. Podium presentation.
222. **Smith, A., N. G. Love, S. J. Skerlos, and L. Raskin.** Role of membrane biofilm in psychrophilic anaerobic membrane bioreactor for domestic wastewater treatment. *Water Environment Federation Technical Exhibition and Conference*. Los Angeles, CA. October 15-19, 2011. Podium presentation.
223. **Colby, A., Khunjar, W., Pinto, A., Ghosh, S., Raskin, L., Love, N.** Impact of Copper Stress on Ammonia Oxidizer Activity and Community Structure in Nitrifying Activated Sludge. *Water Environment Federation Technical Exhibition and Conference*. Los Angeles, CA. October 15-19, 2011. Podium presentation.
224. **Smith, A.L., N.G. Love, S. Skerlos, and L. Raskin,** 2011. Analysis of microbial communities in an anaerobic membrane bioreactor for domestic wastewater treatment at psychrophilic conditions. *2011 Biogas Microbiology Conference*, September 14-16, Leipzig, Germany.
225. **Colby, A., Khunjar, W., Pinto, A., Ghosh, S., Raskin, L., Love, N.** 2011. Effect of Copper Stress on Ammonia Oxidizer Community Structure and Nitrification Performance in a Nitrifying Activated Sludge Wastewater Treatment Process. *2<sup>nd</sup> International Conference on Nitrification*. Nijmegen, the Netherlands. July 1-7.
226. **Guest, J.S., S.J. Skerlos, N.G. Love.** 2011. Quantitative sustainable design of wastewater treatment plants. *Engineering Sustainability 2011*, Pittsburgh, PA, March 10-12, 2011, Podium presentation.
227. **Cook, S. M., B.J. VanDuinen, S.J. Skerlos, N.G. Love.** Life cycle comparison of environmental impacts from alternative pharmaceutical disposal methods. *Engineering Sustainability 2011 Conference*, Pittsburgh, PA, April 11, 2011
228. **Smith, A.L., N.G. Love, S.J. Skerlos, and L. Raskin.** 2010. Anaerobic membrane bioreactors for sustainable domestic wastewater treatment at psychrophilic temperatures. *Proceedings of the 12th World Congress on Anaerobic Digestion*, Guadalajara, Mexico, November 1-4, 2010
229. **Smith, A.L., H.J. Dorer, N.G. Love, S.J. Skerlos, and L. Raskin.** 2011. Role of membrane biofilm in psychrophilic anaerobic membrane bioreactor for domestic wastewater treatment. *Proceedings of the 84<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference*, Los Angeles, California, October 15-19, 2011.
230. **Pinto, A.J. and N.G. Love.** Impact of chemical perturbation on trophic interactions and its implications for ecosystem function in an engineered environment. *13<sup>th</sup> International Symposium on Microbial Ecology 2010*, Seattle, Washington. August 22-27, 2010
231. **Love, N.G., W. O. Khunjar, S. Mackintosh, S. Baik, and D. Aga.** The Relative Roles of Ammonia Oxidizing and Heterotrophic Activated Sludge Bacteria in Biotransforming 17 $\alpha$ -Ethinylestradiol and Trimethoprim. Podium presentation, *AEESP Special Session. 83<sup>rd</sup> Water Environment Federation Technical Exposition and Conference 2010*, New Orleans, LA, October 3-6, 2010.

232. **Smith, A.L., N.G. Love, S. Skerlos, and L. Raskin, 2010.** Anaerobic membrane bioreactors for sustainable domestic wastewater treatment at psychrophilic temperatures. *12th World Congress on Anaerobic Digestion*, October 31 - November 4, Guadalajara, Mexico. International Water Association.
233. **N. G. Love, W. O. Khunjar, J. Skotnicka-Pitak, S. Mackintosh, S. Baik, D. S. Aga, T. Yi, and W. F. Harper Jr. 2010.** Elucidating the role of ammonia oxidizing bacteria versus heterotrophic bacteria during the biotransformation of 17 $\alpha$ -ethinylestradiol and trimethoprim. Podium presentation. International Water Association World Water Congress and Exposition, Montreal, Quebec, Canada, Sept 20-24, 2010.
234. **W.O. Khunjar, J. Skotnicka-Pitak, S. Mackintosh, S. Baik, N. G. Love, D.S. Aga, W.F. Harper Jr. 2010.** Elucidating factors that influence the biotransformation of 17  $\alpha$ -ethinylestradiol and trimethoprim. Poster presentation. International Water Association Leading Edge Technology Conference, Phoenix, AZ, June 1-4, 2010.
235. **Guest, J. S., S. J. Skerlos and N. G. Love. 2010.** An optimization methodology for elucidating locality-specific sustainability trade-offs in wastewater treatment plant process selection. Poster presentation. International Water Association Leading Edge Technology Conference, Phoenix, AZ, June 1-4, 2010.
236. **Pinto, A.J., Hardin, S.C., Love, N.G., Fairey, A., Earle, J., Washington, P., Iler, P., Doane-Weideman, T., and Lagrange, R. Remedial Intervention Strategies for Wastewater Treatment Plant Exposed to Heavy Metal Stress: Laboratory and Pilot Scale Evaluations.** Podium presentation. *Proceedings of the 82nd Water Environment Federation Technical Exposition and Conference 2009*, Orlando, Florida, October 10-14, 2009.
237. **Khunjar, W. O., Skotnicka-Pitak, J., Celiz, M.D., Baik, S., Love, N.G., Aga, D.S., Harper Jr., W.F.** The Impact of Physiological State and Residual Organic Carbon on the Biotransformation of 17 $\alpha$ -Ethinylestradiol and Trimethoprim by Heterotrophic Bacteria. Podium Presentation. *82nd Annual Water Environment Federation Technical Exposition and Conference*, Orlando, Florida, October 10-14, 2009.
238. **Guest, J. S.; Cook, S. M.; Skerlos, S. J.; Love, N. G. 2009.** A methodology to assess the environmental impacts of upgrading wastewater infrastructure: A case study to evaluate energy recovery from black water. Podium presentation. *Proceedings of the 82nd Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC)*, Orlando, Florida, October 10-14, 2009.
239. **Thomas, W.A., Bott, C.B., Regmi, P., Schafran, G., Pinto, A., Love, N.G., McQuarrie, J., Rutherford, B., Baulmer, R., Waltrip, D.** Evaluation of Nitrification Kinetics for a 2.0 MGD IFAS demonstration project. Podium presentation. *Proceedings of the 82nd Water Environment Federation Technical Exposition and Conference 2009*, Orlando, Florida, October 10-14, 2009.
240. **Cook, S. M., J. S. Guest, S. J. Skerlos, N. G. Love. 2009.** Environmental characteristics of different energy recovery systems from the management of sewage sludge and food waste. Podium presentation, *IWA Sustainable Management & Technologies of Sludges Conference*, Harbin, China, August 8-11, 2009.
241. **Pinto, A.J., N. G. Love, A. Fairey, J. Earle, P. Washington, P. Iler, T. Doane-Weideman, and R. Lagrange. 2009.** Integration of online sensors with corrective action strategies to detect, monitor, and mitigate toxic shock events at nutrient removal wastewater treatment plants. *Water Environment Federation: Nutrient Removal Conference*. Washington, DC. June 28-July 1, 2009.
242. **Pinto, A.J. and N. G. Love.** Post-stress recovery of a complex ammonia oxidizing bacterial community following heavy metal cadmium stress. Short podium presentation and poster presentation. *International Conference on Nitrification 1*. Louisville, KY, July 5-9, 2009.
243. **Guest, J. S.; Skerlos, S. J.; Daigger, G. T.; Corbett, J. R. E.; Love, N. G. 2009.** The use of qualitative system dynamics to identify sustainability characteristics of decentralised wastewater management alternatives. *Proceedings of 6th IWA Leading Edge Conference on Water and Wastewater Technologies*, Singapore, June 22-25, 2009. *Invited for consideration in Water Science and Technology*.
244. **Pinto, A.J., S. C. Hardin, and N. G. Love. 2009.** Cadmium-induced short-term structural and functional changes in ammonia oxidizing community in conventional laboratory and pilot scale activated sludge

- systems. Podium presentation. *Proceedings of the ASPD5 (Activated Sludge Population Dynamics) Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment*. International Water Association. Aalborg, Denmark, May 24-27, 2009.
245. Gilmore, K. R., B. F. Smets, A. Terada, S. Lackner, J. L. Garland, N. G. Love. 2009. Microbial community analysis in an autotrophic hollow-fiber membrane-aerated biofilm reactor (HFMBR) treating a high-strength nitrogen wastewater. Podium presentation. *Proceedings of the ASPD5 (Activated Sludge Population Dynamics) Specialised Conference: Microbial Population Dynamics in Biological Wastewater Treatment*. International Water Association. Aalborg, Denmark, May 24-27, 2009, pp 146-148.
  246. Khunjar, W. O., Skotnicka-Pitak, J., Celiz, M.D., Mackintosh, S., Love, N.G., Aga, D.S., Harper Jr., W.F. Elucidating the Role of Ammonia Oxidizing Bacteria versus Heterotrophic Bacteria in the biotransformation of 17 $\alpha$ -ethinylestradiol. Poster presentation. *Proceedings of the Activated Sludge Population Dynamics 5 (ASPD5): Microbial Population Dynamics in Biological Wastewater Treatment*. International Water Association. Aalborg, Denmark, May 24-27, 2009.
  247. Loh, K. J., J. S. Guest, G. Ho, J. P. Lynch, and N. G. Love. 2009. Layer-by-layer carbon nanotube bio-templates for in situ monitoring of the metabolic activity of nitrifying bacteria. *SPIE Smart Structures and Materials*, San Diego, CA.
  248. Ghosh, S. and N. G. Love. MexAB-OprM efflux pump mediated changes in antibiotic susceptibilities of *Pseudomonas aeruginosa*. ASM General Meeting, Philadelphia. May 19, 2009.
  249. Love, N. G., D. Bronk, E. Canuel, M. Poteat, Q. Roberts, K. C. Filippino, P. Hatcher, R. Mesfioui, M. M. Mulholland, and G. Ho. The importance of effluent organic nitrogen fate and its contribution to N management in N-limited regions. Podium presentation. *Association of Environmental Engineering and Science Professors Conference*, July 26-29, 2009, Iowa City, IA.
  250. Khunjar, W. O., Skotnicka-Pitak, J., Celiz, M.D., Mackintosh, S., Love, N.G., Aga, D.S., Harper Jr., W.F. 2009. Elucidating the role of ammonia oxidizing bacteria versus heterotrophic bacteria in the biotransformation of 17 $\alpha$ -ethinylestradiol. Poster Presentation. *Association of Environmental Engineering and Science Professors Conference*, July 26-29, 2009, Iowa City, IA.
  251. Pinto, A.J., J. S. Guest, R. Roots, N. G. Love, and S. Skerlos. 2009. A project-based active learning framework to introduce freshman engineering students to sustainable waste management and waste-to-energy technologies. Podium presentation. *Association of Environmental Engineering and Science Professors 2009 Conference*. Iowa City, IA, July 26-29, 2009.
  252. Pinto, A.J. and N. G. Love. 2009. Structural and Functional Response of the Ammonia Oxidizing Bacterial Community to Acute Cadmium Stress in Laboratory and Pilot Scale Activated Sludge Systems. Poster presentation. *Association of Environmental Engineering and Science Professors 2009 Conference*. Iowa City, IA, July 26-29, 2009.
  253. Khunjar, W. O., Skotnicka-Pitak, J., Celiz, M.D., Mackintosh, S., Love, N.G., Aga, D.S., Harper Jr., W.F. 2009. Elucidating the Role of Ammonia Oxidizing Bacteria versus Heterotrophic Bacteria in the biotransformation of 17 $\alpha$ -ethinylestradiol. Poster presentation. *Micropol and Ecohazard 2009, 6<sup>th</sup> IWA/GRA Specialized Conference on Assessment and Control of Micropollutants/Hazardous Substances in Water* June 2009, San Francisco, CA.
  254. Cook, S. M., J. S. Guest, M. G. Christianson, N. G. Love, S. J. Skerlos. 2009. Energy Recovery from Wastewater: Evaluation of Resource Management Alternatives for Appropriate and Environmentally Sustainable Energy Production. Podium presentation, *Engineering Sustainability 2009 Conference*, Pittsburgh, PA, April 21, 2009.
  255. H.A. Tucker, K.F. Knowlton, and N.G. Love. 2009. Fecal and urinary estrogens in dairy heifers during the estrous cycle. *J. Dairy Sci.* 92 (Suppl. 1).
  256. Hardin, S., A. Pinto, N. G. Love, and A. Shaw. 2008. Impact of Contaminant-Specific Corrective Action Strategies on Wastewater Treatment Plant Performance and Recovery. Poster presentation. *Water*

*Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008. 1<sup>st</sup> Place - Best Poster Award.

257. **Khunjar, W. O., Skotnicka-Pitak, J., Yi, T., Love, N.G., Aga, D.S., Harper Jr., W.F.** 2008. Biotransformation of pharmaceutical, personal care products during nitrification – the role of nitrifiers vs. heterotrophs. Podium presentation. *ASCE World Environmental & Water Resources Congress 2008*. Honolulu, HI.
258. **Aga, D., N. G. Love, W. Harper, W. O. Khunjar, J. Slotnicka-Pitak, T. Yi.** 2008. Biotransformation of pharmaceuticals by nitrifying and heterotrophic cultures: Investigation of degradation kinetics and metabolite identification. Keynote Address - International Water Association Leading Edge Technology Conference, Zurich, Switzerland, June 1-4, 2008.
259. **Shaw, A., deBarbadillo, C., Pinto, A. J., Guest, J. S., Love, N. G., Fairey, A. W., Iler, P. L., Earle, J. K., Shellenbarger, D., and Barker D.** 2008. Dynamic whole plant modeling to investigate mitigation strategies for toxic shocks. 1<sup>st</sup> IWA/WEF Wastewater Treatment Modeling Seminar. Mont-Sainte-Anne, Quebec, Canada. June-1-3, 2008.
260. **Love, N. G. and Skerlos, S. J.** 2008. Global Sustainable Water Systems – Acknowledging Wastewater as a Resource. *Graham Environmental Sustainability Institute Water, Health + Environment Workshop*, University of Michigan, March 26-27, 2008.
261. **Musabyimana, M., N. G. Love, C. B. Bott and S. Murthy.** 2008. Evaluation of nitrite inhibition and toxicity in the deammonification process. Podium presentation alternate. *Proceedings of the Water Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008.
262. **O'Shaughnessy, M, M. Musabyimana, J. Sizemore, S. Murthy, B. Wett, I. Takacs, D. Houweling, P. Sanjines, N. Love, K. Pallansch,** 2008. Operations and process control of the deammonification process as a sidestream option for nutrient removal. Podium presentation. *Proceedings of the Water Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008.
263. **Khunjar, W. O., J. Skotnicka-Pitak, N. G. Love, D. Aga, W. F. Harper Jr.** 2008. Elucidating the role of nitrifiers versus heterotrophic bacteria in the biotransformation of 17 $\alpha$ -ethinylestradiol during wastewater treatment. Podium presentation. *Proceedings of the Water Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008.
264. **Gilmore, K. R., N. G. Love, B. F. Smets, A. Terada, J. Garland.** 2008. Nitrifier and anammox population dynamics in an autotrophic nitrogen removal membrane biofilm reactor. Podium presentation. *Proceedings of the Water Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008.
265. **Pinto, A., S. Hardin and N. G. Love.** 2008. Structural and functional responses of the ammonia oxidizing community in activated sludge exposed to cadmium stress. Podium presentation. *Proceedings of the Water Environment Federation 81<sup>st</sup> Annual Conference and Exposition*, Chicago, IL, October 19-22, 2008.
266. **Gilmore, K. R., B. F. Smets, J. L. Garland, A. Terada, and N. G. Love.** 2008. Controlling gaseous nitrogen oxide emissions and nitrogen removal performance in hollow fiber membrane aerated biofilm reactors. *Proceedings of the WEF Membrane Technology 2008 Conference*, Atlanta, Georgia, January 27-30, 2008.
267. **DeBusk, J. A., J. Arogo Ogejo, N. G. Love, K. F. Knowlton.** 2007. Adjusting nitrogen to phosphorus ratios in liquid dairy manure through nitrification and chemical phosphorus removal to match crop fertilizer requirements. Podium presentation. *Proceedings of the American Society of Agricultural and Biological Engineers (ASABE)*, Paper No. 074048, June 17-20, 2007.
268. **Guest, J. S., A. J. Pinto, N. G. Love and A. Shaw.** 2007. Corrective action strategies for enhanced biological phosphorus removal WWTPs during short-term and prolonged toxic shock events. Podium presentation. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.

269. **Khunjar, W. O., C. Klein, T. Yi, N. G. Love, D. Aga, and W. F. Harper Jr.** 2007. Cometabolism of pharmaceutical, personal care products (PPCPs) by the ammonia oxidizing bacterium *Nitrosomonas europaea*. Podium presentation. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.
270. **Ikuma, K., I. D. S. Henriques, B. J. Love and N. G. Love.** 2007. Immobilization of *Pseudomonas aeruginosa* in alginate microbeads for use in a biosensor designed to detect oxidative toxins. Podium presentation. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.
271. **Gilmore, K. R., N. G. Love and B. F. Smets.** 2007. Oxygen mass transfer in a flow-through hollow fiber membrane aeration reactor. Poster presentation. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.
272. **Beck, J. L., K. R. Gilmore, N. G. Love, K. F. Knowlton and J. Arogo Ogejo.** 2007. Nitrogen removal from dairy waste using deammonification fueled by fermented dairy manure. Podium presentation. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.
273. **Pinto, A.J., Guest, J.S., Love, N.G., and Shaw, A.** 2007. Elucidating the importance of contaminant specific corrective action strategies for wastewater treatment plants during toxic shocks. *Proceedings of the Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition (WEFTEC)*, San Diego, CA, October 14-17, 2007.
274. **Khunjar, W. O., Klein, C., Skotnicka-Pitak, J., Yi, T., Love, N. G., Aga, D. Harper, W. F. Jr.** 2007. Biotransformation of pharmaceuticals and personal care products (PPCPs) during nitrification: the role of ammonia oxidizing bacteria versus heterotrophic bacteria. WEF Specialty Conference - Compounds of Emerging Concern: What's on the Horizon? Providence, Rhode Island, July 29-30, 2007, Podium presentation.
275. **Fang, Y., Zhao, Z., Love, N. G., Knowlton, K. F., Novak, J. T.** 2007. Detecting endocrine disrupting compounds in various waste matrices using a bioassay. WEF Specialty Conference - Compounds of Emerging Concern: What's on the Horizon? Providence, Rhode Island, July 29-30, 2007, Podium presentation.
276. **Ikuma, K. Fraga Muller, J., Stevens, A. M., Hagedorn III, C., Love, N. G.** 2007. Evaluating the extent of pollution-induced antibiotic resistance in environmental bacterial strains. *American Water Resources Association Summer Specialty Conference – Emerging Contaminants of Concern in the Environment: Issues, Investigations and Solutions*. Vail, Colorado, June 25-27, 2007, Podium presentation.
277. **Khunjar, W. O., Klein, C., Yi, T., Henriques, I. D. S., Love, N. G., Aga, D. S., Harper Jr., W. F.** 2007. The relative roles of ammonia oxidizing bacteria versus heterotrophic bacteria in biotransforming 17 $\alpha$ -ethinylestradiol under low growth rate conditions. *American Water Resources Association Summer Specialty Conference – Emerging Contaminants of Concern in the Environment: Issues, Investigations and Solutions*. Vail, Colorado, June 25-27, 2007, Podium presentation.
278. **Zhao, Z., K. F. Knowlton, N. G. Love and Y. Fang.** 2007. Advanced treatment to reduce the estrogen content of dairy manure. *American Society of Civil Engineers World Environmental & Water Resources Congress*, Tampa Bay, FL., May 15-19, 2007. Podium presentation.
279. **Zhao, Z., Knowlton, K.F., Love, N. G., and Fang, Y.** 2007. Dairy manure estrogens with advanced treatments. *Journal of Dairy Science*, **90**:332, Supplement 1.
280. **Pinto, A. J., Love, N. G.** 2007. Elucidating the importance of contaminant specific corrective action strategies for wastewater treatment plants during toxic shocks. Poster presentation. *Water Environment Federation 80<sup>th</sup> Annual Conference and Exposition*, San Diego, CA, Oct 14-17, 2007.
281. **Beck, J. L., N. G. Love, K. F. Knowlton and J. Arogo Ogejo.** 2007. Nitrogen removal from dairy waste using deammonification fueled by fermented dairy manure. Poster presentation. *Proceedings of the American Society of Agricultural and Biological Engineers (ASABE)*, June 17-20, 2007.



282. **Khunjar, W. O., Baik, S., Celiz, D., Yi, T., Henriques, I.D.S., Love, N. G., Aga, D. S., Harper Jr., W. F.** 2007. Evaluation of the fate of environmentally relevant micropollutants. Podium presentation. *American Society of Civil Engineers World Environmental & Water Resources Congress*, Tampa Bay, FL., May 15-19, 2007.
283. **Aga, D. S., Harper Jr., W. F., Love, N. G. Khunjar, W. O., Klein, C., Celiz, D. M., Baik, S., Yi, T.** 2007. Investigating the connection between nitrification and the removal of pharmaceuticals using engineered bioreactors. Micropol and Ecohazard 2007, Frankfurt, Germany. Podium Presentation.
284. **Pinto, A. J., Guest, J. S., Love, N. G., Shaw, A., Fairey, A. W., Iler, P. L., Earle, J. K., Shellenbarger, D., Barker, D.** 2007. Process control at nutrient removal wastewater treatment plants during toxic shock events. State of the Art Nutrient Removal Design, Water Environment Federation and International Water Association, March 3-7, 2007, Baltimore, Maryland.
285. **Klein, C., Aga, D. S., Love, N. G., Khunjar, W. O., and Harper Jr., W. F.** 2007. Characterizing the degradation products of 17 alpha-ethinylestradiol in activated sludge systems by LC/MS. 58<sup>th</sup> Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy. Chicago, IL, Feb 25-March 2, 2007. Podium presentation.
286. **Harper Jr. W.F., Love, N.G., Aga, D.S., Yi, T., Khunjar, W.O., Klein, C., O'Connor, S.** Evaluating the link between nitrification and the removal of 17 $\alpha$ -ethinylestradiol. Poster presentation. *Nutrient Removal 2007: The State of the Art. Water Environment Federation Specialty Conference*, Baltimore, MD.
287. **Ikuma, K., Rzigalinski, B. A. and Love, N. G.** 2007. Predicting the public health impact of oxidative toxins using a bacterial glutathione-gated potassium efflux stress response biosensor. 233<sup>rd</sup> American Chemical Society National Meeting, Chicago, Illinois, March 25-29, 2007.
288. **Chandran, K. and Love, N. G.** 2006. Cd(II) mediated inhibition of *Nitrosomonas europaea* is linked to oxidative stress and is impacted by physiological state and growth mode. *Proceedings of the Water Environment Federation 79<sup>th</sup> Annual Conference and Exposition*, Dallas, TX Oct 22-25, 2006. (Number 1 Abstract out of 120+ submissions for Research Symposium)
289. **Kelly, R. T. Jr. and Love, N. G.** 2006. The role of glutathione mediated stress response mechanisms in nitrifying bacteria. *Proceedings of the Water Environment Federation 79<sup>th</sup> Annual Conference and Exposition*, Dallas, TX Oct 22-25, 2006.
290. **Capuno, R. E., Love, N. G., and Smets, B. F.** 2006. Mathematical modeling of start-up scenarios for nitrogen removal via a nitrification:anaerobic ammonia oxidation-coupled biofilm in a hollow fiber membrane bioreactor. *International Water Association Biofilm Systems VI*, Amsterdam, The Netherlands, September 24-27, 2006.
291. **Gilmore, K. R., R. E. Capuno, Jr., N. G. Love, and B. F. Smets.** 2006. Anaerobic stabilization of early planetary base ersatz wastewater formulation. Society of Automotive Engineers (SAE) Technical Paper Series 2006-01-2255. 36<sup>th</sup> International Conference on Environmental Systems, SAE, Norfolk, VA.
292. **Zaklikowski, A., Love, N. G., Vikesland, P. and Chandran, K.** 2006. The effect of breakpoint chlorination practices on the activity, viability and recovery of nitrifying bacteria in chloraminated water. *American Water Works Association Annual Meeting, Universities Forum*. June 12, 2006.
293. **Rushing, J. C., Vikesland, P., Love, N. G., Mutuc, M., Chan, K. M., Casselberry, R. and Cichy, P.** 2006. Evaluating in situ chemical and biological treatment approaches for two chlorinated aliphatic ethers: BCEE and BCEM. The Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds. Battelle, May 22-25, 2006, Monterey, California.
294. **Xu, Y., Lei, G., Linares, K. A., Fleming, D. L., Meehan, K., Lu, G. Q., Love, N. G. and Love, B. J.** 2005. Maximizing dye fluorescence via incorporation of metallic nanoparticles in solution. *SPIE (The International Society for Optical Engineering)*, 5591:175-183.
295. **Henriques, I. D. S., Aga, D., Mendes, P. and Love, N. G.** 2005. Metabolic footprinting: A new approach to identify changes in activated sludge physiology upon exposure to toxic compounds.

- Proceedings of the Water Environment Federation 78<sup>th</sup> Annual Conference and Exposition*, Washington DC, Oct 31-Nov 2, 2005, 12 pages.
296. **Muftugil, M., Knowlton, K. F., and Love, N. G.** 2005. Using enhanced biological phosphorus removal to minimize nutrient delivery from dairy farms to receiving waters. Poster presentation at Water Environment Federation 78<sup>th</sup> Annual Conference and Exposition, Washington DC, Oct 31-Nov 2, 2005.
  297. **Henriques, I. D. S., Aga, D., Mendes, P. and Love, N. G.** 2005. Metabolic footprinting: A new approach to identify changes in activated sludge physiology upon exposure to toxic compounds. *Proceedings of the 4<sup>th</sup> International Water Association Activated Sludge Population Dynamics Specialist Conference*, Gold Coast, Australia, 12 pages.
  298. **Henriques, I. D. S., Aga, D., Mendes, P., and Love, N. G.** 2005. Metabolic Footprinting: A New Approach to Identify Changes in Activated Sludge Physiology upon Exposure to Toxic Compounds. Association of Environmental Engineering and Science Professors Conference, July 24-26, Clarkson University, Potsdam, New York.
  299. **Fraga Muller, J., Craig, J., Stevens, A. M., and Love, N. G.** 2005. Using Whole Genome Arrays to Investigate Functional Response to Contaminant Stress: the Response of *Pseudomonas aeruginosa* to Pentachlorophenol. Association of Environmental Engineering and Science Professors Conference, July 24-26, Clarkson University, Potsdam, New York.
  300. **Fraga Muller, J., Craig, J., Stevens, A. M., and Love, N. G.** 2005. The Stress Response of *Pseudomonas aeruginosa* to Pentachlorophenol. *Abstracts of the 105<sup>th</sup> General Meeting of the American Society for Microbiology*, Atlanta Georgia.
  301. **Kelly II, R. T. and Love, N. G.** 2004. Investigating the role of oxidative stress mechanisms in chemically-inhibited nitrifiers. *Proceedings of the Water Environment Federation 77<sup>th</sup> Annual Conference and Exposition*, New Orleans, LA, October 2004, 22 pages.
  302. **Kelly II, R. T. and Love, N. G.** 2004. A critical comparison of methods used to determine nitrification inhibition. *Proceedings of the Water Environment Federation 77<sup>th</sup> Annual Conference and Exposition*, New Orleans, LA, October 2004, 15 pages.
  303. **Henriques, I. D. S., Stevens, A. M. and Love, N. G.** 2004. Is biomass concentration a factor determining the sensitivity of activated sludge to toxic shocks? *Proceedings of the Water Environment Federation 77<sup>th</sup> Annual Conference and Exposition*, New Orleans, LA, October 2004, 22 pages.
  304. **Linares, K., Fleming, D., Xu, Y., Love, N. G., Love, B. J. and Meehan, K.** 2004. Evaluating strategies for integrating bacterial cells into a biosensor designed to detect electrophilic toxins. *Proceedings of the Water Environment Federation 77<sup>th</sup> Annual Conference and Exposition*, New Orleans, LA, October 2004, 17 pages.
  305. **Henriques, I. D. S., Kelly II, R. T. and Love, N. G.** 2004. Deflocculation Effects Due to Chemical Perturbations in Sequencing Batch Reactors. 3<sup>rd</sup> International Symposium on Sequencing Batch Reactors, International Water Association, Brisbane, Australia.
  306. **Leung, S.M., Little, J. C., Holst, T., and Love, N. G.** 2003. Oxygen transfer and consumption in a biological aerated filter. *Proceedings of the Water Environment Federation 76<sup>th</sup> Annual Conference and Exposition*, Los Angeles, CA October 2003.
  307. **Dauphinais, J. L. and Love, N. G.** 2003. Determination of toxic inhibition potential from industrial dischargers to a POTW using a respirometric assay. *Proceedings of the Water Environment Federation 76<sup>th</sup> Annual Conference and Exposition*, Los Angeles, CA October 2003.
  308. **Yanosek, K.A., Wolfe, M. L. and Love, N. G.** 2003. Assessment of enhanced biological phosphorus removal for dairy manure treatment. In the *Animal, Agricultural and Food Processing Wastes*, *Proceedings of the Ninth International Symposium*, 11-14 October 2003 (Raleigh, North Carolina, USA), ed. Robert Burns. ASAE Pub #701P1203. pp. 212-220.
  309. **Henriques, I. D. S. and Love, N. G.** 2003. The role of floc morphology and composition on susceptibility of biomass to shock loads of chemical toxins. Poster presentation at Water Environment

- Federation 76<sup>th</sup> Annual Conference and Exposition, Los Angeles, CA October 2003. *1<sup>st</sup> Place - Best Poster Award*.
310. **Holbrook, R.D., Novak, J. T. and Love, N. G.** 2002. The role of particulate and colloidal material in the fate and transport of endocrine disrupting compounds. *Proceedings of the Water Environment Federation 75<sup>th</sup> Annual Conference and Exposition*, Chicago, IL October 2002.
  311. **Leung, S., Holst, T., Love, N. G. and Little, J. C.** 2002. A fundamental investigation of oxygen utilization in a biological aerated filter. *Proceedings of the Water Environment Federation 75<sup>th</sup> Annual Conference and Exposition*, Chicago, IL October 2002.
  312. **Kelly, R. T. II, Henriques, I. D. S., Dauphinais, J. and Love, N. G.** 2002. Evaluation of source-effect relationships for activated sludge response to shock loads of disruptive chemical toxins. *Proceedings of the Water Environment Federation 75<sup>th</sup> Annual Conference and Exposition*, Chicago, IL October 2002.
  313. **Wimmer, R. F. and Love, N. G.** 2002. Activated sludge deflocculation in response to chlorine addition: the potassium connection. *Proceedings of the Water Environment Federation 75<sup>th</sup> Annual Conference and Exposition*, Chicago, IL October 2002.
  314. **Love, N. G., Wimmer, R. F., Barker, S., Travis, J., Love, B. J., and Locascio, L.** 2002. Developing sensing technologies to enable proactive operations in biological wastewater treatment. Association of Environmental Engineering and Science Professors/American Academy of Environmental Engineers Conference, August 10-14, University of Toronto, Toronto, Canada, p. 24.
  315. **Love, N. G.** 2002. Invited keynote speaker. Status and Potential for Biosensors in Wastewater Treatment. European Union COST meeting, *Biosensors in Wastewater*, Milan Italy.
  316. **Holbrook, R. D., Novak, J. T. and Love, N. G.** 2001. Process considerations for the reduction of endocrine disruption potential in wastewater effluents. *Proceedings of the Water Environment Federation 74<sup>th</sup> Annual Conference and Exposition*, Atlanta, GA, October 2001.
  317. **Wimmer, R. F., Waddell, E., Barker, S. L. R., Suggs, A., Locascio, L., Love, B. J. and Love, N. G.** 2001. Development of an upset early warning device to predict deflocculation events. *Proceedings of the Water Environment Federation 74<sup>th</sup> Annual Conference and Exposition*, Atlanta, GA, October 2001.
  318. **Philpps, S. D. and Love, N. G.** 2001. Quantifying observed biomass yield in a biological aerated filter. *Proceedings of the Water Environment Federation 74<sup>th</sup> Annual Conference and Exposition*, Atlanta, GA, October 2001.
  319. **Love, N. G. and Bott, C. B.** 2001. Evaluating the Role of Microbial Stress Response Mechanisms in Causing Biological Treatment System Upset. *Microorganisms in Activated Sludge and Biofilm Processes*, Rome, Italy [see associated *Water Science and Technology* publication above].
  320. **Love, N. G., C. B. Bott, K. C. Terlesky.** 2001. Proteomic approach to assessing environmental stress in complex microbial communities." Oral presentation at the 221<sup>st</sup> American Chemical Society National Meeting, San Diego, CA. April 2, 2001.
  321. **Bott, C. B., Abrajano, J. and Love, N. G.** 2000. A physiological mechanism for activated sludge deflocculation caused by shock loads of toxic chemicals. *Proceedings of the Water Environment Federation 73<sup>rd</sup> Annual Conference and Exposition*, Anaheim, CA, October 14-18, 2000.
  322. **Bott, C. B., Duncan, A. J. and Love, N. G.** 2000. Stress Protein Expression in Domestic Activated Sludge in Response to Xenobiotic Shock Loading. First World Congress of the International Water Association, Paris France [see associated *Water Science and Technology* publication above].
  323. **Ma, G. and Love, N. G.** 2000. Creating Anoxic and Microaerobic Conditions in Sequencing Batch Reactors Treating Volatile BTX Compounds. 2<sup>nd</sup> International Symposium on Sequencing Batch Reactor Technologies, Narbonne, France [see associated *Water Science and Technology* publication above].
  324. **Fouratt, M., Smithers, C., Love, N. G., and Stevens, A. M.** 2000. The characterization of nitrifying bioaugmentation cultures. Poster presentation. *Abstracts of the 100<sup>th</sup> General Meeting of the American Society for Microbiology*, Los Angeles, CA. p. 491.

325. **Fouratt, M., Smithers, C., Love, N. G., and Stevens, A. M.** 2000. The characterization of nitrifying bioaugmentation cultures. Poster presentation. *Abstracts of the 100<sup>th</sup> General Meeting of the American Society for Microbiology*, Los Angeles, CA. p. 491.
326. **Delahaye, A., Gilmore, K. R., Husovitz, K. J., Love, N. G., Holst, T., Novak, J. T.** 1999. Distribution and characteristics of biomass in pilot-scale upflow biological aerated filters treating domestic wastewater. Podium presentation. *Proceedings of the International Association on Water Quality Conference on Biofilm Systems*, New York, NY, October 17-21.
327. **Love, N. G., Gilmore, K. G., Husovitz, K. J., Delahaye, A. P., Novak, J. T. and Little, J. C.** 1999. Performance of a Biological Aerated Filter System Treating Domestic Wastewater for BOD, Ammonia and TSS Removal: Pilot Plant Results. Podium presentation. *Proceedings of the Water Environment Federation 72<sup>nd</sup> Annual Conference and Exposition*, New Orleans, LA, October 9-13, 1999.
328. **Husovitz, K. L., Gilmore, K. R., Delahaye, A. P., Love, N. G., and Little, J. C.** 1999. The influence of upflow liquid velocity on nitrification in a biological aerated filter. Podium presentation. *Proceedings of the Water Environment Federation 72<sup>nd</sup> Annual Conference and Exposition*, New Orleans, LA, October 9-13, 1999.
329. **Love, N. G., Bott, C. B., Duncan, A. J., Terlesky, K. C.** 1999. Using the molecular stress response as an indicator of system stress in complex environmental systems. Selected Podium Presentation, Association of Environmental Engineering and Science Professors Research Frontiers Conference, Pennsylvania State University, University Park, PA.
330. **Bott, C. B., Terlesky, K. C., Duncan, A. Jane, Wheeler, J., and Love, N. G.** 1998. The immunochemical detection of stress proteins as an indicator of toxic discharges to activated sludge systems. Podium presentation. *Proceedings of the Water Environment Federation 71<sup>st</sup> Annual Conference and Exposition*, Orlando, FL, October 3-7, 1998. 1:203-214.
331. **Phillips, J. B., and Love, N. G.** 1998. Biological denitrification using upflow biofiltration in recirculating aquaculture systems: pilot-scale experience and implications for full-scale. Podium presentation. *Proceedings of the Second International Conference on Successes and Failures in Commercial Recirculating Aquaculture*, Roanoke, VA. pp 171-178.
332. **Gilmore, K. R., K. J. Husovitz, T. Holst, and N. G. Love.** 1998. Influent of organic and ammonia loading on nitrifier activity and nitrification performance for a two-stage biological aerated filter system. 1998. *Proceedings of the International Specialty Conference on Microbial Ecology of Biofilms: Concepts, Tools, and Applications*, International Association on Water Quality, Lake Bluff, Illinois, October 8-10, 1998. 309-316.
333. **Terlesky, K. C. and Love, N. G.** 1998. Detection of Hsp60 in activated sludge following exposure to xenobiotic compounds. Poster Presentation, *Abstracts of the 98th General Meeting of the American Society for Microbiology*, Atlanta, Georgia, p. 444.
334. **Terlesky, K. C., and Love, N. G.** 1998. Photoheterotrophy in activated sludge, Poster Presentation, *Abstracts of the 98th General Meeting of the American Society for Microbiology*, Atlanta, Georgia, p. 423.
335. **Fettig, J. D., and Love, N. G.** 1997. BTX degradation in activated sludge culture under denitrifying conditions. Podium presentation. *Proceedings from the 2nd International Conference on Microorganisms in Activated Sludge and Biofilm Processes*, International Association on Water Quality, Berkeley, CA, pp 579-582.
336. **Lubkowitz, E. M. and Love, N. G.** 1997. Development of a single sludge biological treatment scheme that incorporates nitrogen removal for a wastewater containing compounds inhibitory to nitrification. Podium presentation. *Proceedings of the Water Environment Federation 70<sup>th</sup> Annual Conference and Exposition*, Chicago, IL, October 18-22, 1997. 3(2):577-588.
337. **Rasnake, W. J., Love, N. G., Black, W. L., and Gruber, D.** 1997. Application of a toxicity reduction evaluation at a seafood processing facility which emphasized source reduction and treatment

- efficiency to minimize environmental risk. Podium presentation. *Proceedings of the 29th Annual Mid-Atlantic Industrial and Hazardous Waste Conference*, Roanoke, VA, pp 263-269.
338. **Terlesky, K. C.** and Love, N. G. 1997. Analysis of total protein present in activated sludge: applicability to monitoring the induction of indicator proteins in a microbial consortium. Poster presentation. *Abstracts of the 97th General Meeting of the American Society for Microbiology*, Miami Beach, Florida, p. 469.
  339. **Novak, J. T., Smith, M. L., and Love, N. G.** 1996. The impact of cationic salt addition on the settleability and dewaterability of an industrial activated sludge. Podium presentation. *Proceedings of the Water Environment Federation 69th Annual Conference and Exposition*, 2:211-222.
  340. **Love, N. G.** and Grady, C. P. L. Jr., 1995. Impact of glucose and m-toluate on the rate and extent of benzoate-mediated TOL plasmid instability. Poster presentation. *Abstracts of the 95th General Meeting of the American Society for Microbiology*, Washington, D.C.
  341. **Lu, Y.-T., Love, N. G., and Grady, C. P. L. Jr.** 1993. A microscopic technique to detect plasmid-free cells in a background of plasmid-containing cells. Poster presentation. *Abstracts of the 93rd General Meeting of the American Society for Microbiology*, Atlanta, Georgia.

#### Published Reports (not peer reviewed)

342. Margaret R. Mulholland\*, Nancy G. Love\*, Deborah A. Bronk, Vikram Pattarkine, Amit Pramanik, H. David Stensel. 2009. Establishing a research agenda for assessing the bioavailability of wastewater treatment plant-derived effluent organic nitrogen in treatment systems and receiving waters. Chesapeake Bay Scientific and Technical Advisory Committee Publication 09-002, <http://www.chesapeake.org/stac/Pubs/eonreport.pdf>. (\*co-chairs)
343. Mulholland, M. R., Love, N. G., Pattarkine, V. M., Bronk, D. A. and Canuel, E. 2007. Bioavailability of Organic Nitrogen from Treated Wastewater. Chesapeake Bay Scientific and Technical Advisory Committee Publication 07-001.

#### Conference Presentations (not listed elsewhere; presenter in bold, student designations as defined previously)

344. Several posters to be presented at the Association of Environmental Engineering and Science Professors Biannual Conference, Arizona State University, Tempe, Arizona. May 15-16, 2019.
  - A. Noe-Hays, A. Davis, **N. J. Lowe**, **J. Eraci**, **Y. J. Ooi**, A. Sabido, K. Nace, **E. Rodriguez**, K. Wigginton, N. Love. Onsite production of concentrated urine-derived fertilizer in building-scale systems using remote process monitoring and control.
  - **E. Rodriguez**, **W. Tappin**, K. Wigginton, N. G. Love. Comparative Examination of Pharmaceutical Degradation in Synthetic Urine by a Dielectric Barrier Discharge Plasma Jet and UV/H<sub>2</sub>O<sub>2</sub> Reactor.
  - Kerkez, B., N. G. Love, R. L. McCaffery, **M. Bartos**, J. Montgomery, **E. TerBeek**. A First Year College Course on Smart Water Systems.
345. Several talks were given by invitation at the Rich Earth Institute's Urine Summit, August 16-17, 2017 in Brattleboro, VT. As PI, Nancy Love was involved with developing content for all these slides and overseeing their presentations.
  - Malavika Sahai. Social Research for the UM INFEWS Project.
  - Heather Goetsch. Microbial risks in source-separated urine.
  - Enrique Rodriguez. Urine-derived fertilizer tool.
  - Dylan Raye-Leonard. Pilot-scale urine diversion and processing @ UMICH
346. **Enrique Rodriguez**, **Dylan Raye-Leonard** and **Heather Goetsch**. 2017. Overview and tour of the urine-diversion and urine processing @Michigan. AEESP Biannual Conference, June 21, 2017.
347. **McFarland, A.**, Larsen, L., Love, N.G. Stormwater Management in Low-Resource Settings Using Green Infrastructure. Fall 2017. Dow Sustainability Symposium, Poster Presentation, Ann Arbor, MI.

348. **Delgado Vela, J., Stadler, L., Love, N.G.** 2014. Elucidating Biotransformation of Pharmaceuticals by the Methanotroph *Methylosinus trichosporium* Ob3b. Gordon Research Conference Environmental Sciences: Water, Plymouth, NH, June 22-27. (poster presentation)
349. **Stadler, L. B., Su, L., Stevens, L., Delgado Vela, J., Aga, D. S., and Love, N. G.** 2013. Impact of Redox Environment and Microbial Populations on Pharmaceutical Biotransformation. Poster presentation. IWA 5<sup>th</sup> International Conference on Microbial Ecology and Water Engineering, Ann Arbor, MI, July 7 – 10. (poster presentation)
350. **Stadler, L. B., Su, L., Aga, D. S., and Love, N. G.** 2013. Impact of Dissolved Oxygen Concentration on Pharmaceutical Biotransformations during Wastewater Treatment. Poster presentation. Engineering Graduate Symposium, University of Michigan, Ann Arbor, MI, November 15. (1<sup>st</sup> place in Civil & Environmental Engineering track poster competition).
351. **Stadler, L. B., Su, L., Aga, D. S., and Love, N. G.** 2013. Impact of Redox Environment and Microbial Populations on Pharmaceutical Biotransformation during Wastewater Treatment. Poster presentation. 86<sup>th</sup> Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC), Chicago, IL, October 5 – 9.
352. **Delgado Vela, J., Stadler, L., Love, N.G.** 2013. Elucidating Biotransformation of Pharmaceuticals by Methanotrophic Bacteria. Association of Environmental Engineering & Science Professors (AEESP) 50<sup>th</sup> Anniversary Conference, Golden CO, July 14-16.
353. **Stadler, L. B., Moline, C. J., Ernstoff, A. S., Su, L., Dapcic, A. D., Aga, D., and Love, N. G.** 2012. Pharmaceutical Fate in Biological Treatment Reactors Across Varying Redox Environments. Poster presentation. Gordon Research Conference, Environmental Science: Water. Holderness, NH, June 25 - 29.
354. **Love, N.G.** Challenges in Predicting Micropollutant Fate in Biological Processes. WWTMod2012 Workshop on Modelling Micropollutant Fate in Biological Processes, Mont-Sainte-Anne, Québec, Canada, Feb 26-28, 2012.
355. **Keen, O., Baik, S., Stadler, L. B., Linden, K. G., Aga, D. S., and Love, N.G.** 2011. Assessing the Use of Advanced Oxidation and Biofiltration to Remove Recalcitrant Pharmaceuticals Downstream of Biological Treatment. Borchardt Conference, University of Michigan, Ann Arbor, MI, February 23.
356. **Cook, S. M.** and N.G. Love. A Regional Strategy for Managing Food Processing and Septage Waste: The Grand Traverse Region Collaboration. Oral presentation at *Biogas Summit*. Flint, MI, October 29, 2010.
357. **Smith, A.L., H.J. Dorer, N.G. Love, S.J. Skerlos, and L. Raskin.** Methane Production from Domestic Wastewater using Anaerobic Membrane Bioreactors. Oral presentation at *Biogas Summit*, Flint, Michigan, October 29, 2010.
358. **Cook, S. M.** and N.G. Love. A Regional Strategy for Managing Food Processing and Septage Waste: The Grand Traverse Region Collaboration. *Michigan Food Processors Summit*. Mt. Pleasant, MI, October 20, 2010
359. **S. Ghosh, C. M. Cremers, U. Jakob, and N. G. Love.** Chlorophenols modulate expression of the multidrug resistance efflux pump MexAB-OprM in *Pseudomonas aeruginosa*. Gordon Research Conference on Environmental Sciences: Water. Holderness, New Hampshire. June 20-25, 2010
360. **Guest, J.S., S. J. Skerlos, N. G. Love.** 2011. Quantitative sustainable design of wastewater treatment plants. Borchardt 2011 Conference: A Seminar on Advancements in Water and Wastewater, Ann Arbor, MI. February 24, 2011. Podium presentation.
361. **Cook, S. M.** and N.G. Love. 2011. Two-phase anaerobic codigestion of septage and food processing waste: designing a reliable, regional waste management strategy. *Borchardt 2011 Conference*, Ann Arbor, MI, February 23-24, 2011. Poster presentation.
362. **S. Ghosh, J.F. Muller, A. M. Stevens and N. G. Love.** Chlorinated phenols and multidrug resistance in *Pseudomonas aeruginosa*. *Borchardt 2011 Conference*, Ann Arbor, Michigan. February 23-34, 2011. Poster presentation

363. Smith, A.L., Z. Li, H.J. Dorer, N.G. Love, S.J. Skerlos, and L. Raskin. 2011. Energy recovery from domestic wastewater using anaerobic membrane bioreactors. Presented at *Borchardt 2011 Conference*, Ann Arbor, Michigan, February 23-24, 2011. Podium presentation.
364. Guest, J.S., S.J. Skerlos, N.G. Love. 2010. An optimization methodology for elucidating locality-specific sustainability trade-offs in wastewater treatment plant process selection. *IWA Leading Edge Conference on Water and Wastewater Technologies*, Phoenix, AZ, June 2, 2010. Poster presentation.
365. Knowlton, K. F., Love, N. G., Thames, T. H., and Z. Zhao. 2010. Is manure turning boy fish into girl fish? An emerging environmental challenge for livestock producers. In *Proceedings of the Virginia State Feed Association Conference*, Roanoke, VA February 19, 2010, pp 83-89.
366. Guest, J. S., Love, N. G., Lamp, J., Ellis, M. W., Naha, S., and Puri, I. K. 2008. Development of a Nitrifying Microbial Fuel Cell for Sustainable Wastewater Treatment. Podium presentation. The Borchardt Conference, Ann Arbor, MI, Feb 27, 2008.
367. Khunjar, W. O., Love, N. G., Skotnicka-Pitak, J., Aga, D. S., Yi, T., and Harper, W. F. Jr. 2008. Biotransformation of pharmaceuticals and personal care products during nitrification: the role of ammonia oxidizing bacteria. Podium presentation. The Borchardt Conference, Ann Arbor, MI, Feb. 27, 2008.
368. Aruguete, D.M., Guest, J.S., ShROUT, J. D., Love, N. G., Hochella, Jr., M. F. 2008. Bacteria quantum dot interactions and their environmental implications. Poster presentation. *Environmental Nanoparticles: Science, Ethics and Policy*, University of Delaware, Newark, DE, November 10, 2008.
369. Skotnicka-Pitak, J., Aga, D. S., Khunjar, W. O., Love, N. G., Yi, T., Harper Jr., W. F. 2007. Characterization of EE2 metabolite in bioreactors with pure cultures of *Nitrosomonas europaea* and in activated sludge using LC/ITMS. *56<sup>th</sup> ASMS Conference on Mass Spectrometry*.
370. Aruguete, D.M., J.S. Guest, J.D. ShROUT, N.G. Love, and M.F. Hochella, Jr. 2007. Bacterial physiology and viability in the presence of quantum dot nanoparticles: towards an environmental perspective. American Geophysical Union Fall Meeting, San Francisco, California, December 10, 2007.
371. Pinto, A.J., Hardin, S.C., Guest, J.S., Love, N.G., Shaw, A. 2007. Comparing toxic shock event response protocols for wastewater treatment plants. Podium Presentation. Virginia American Water Works Association and Virginia Water Environment Association Joint Annual Meeting (WaterJAM), Hampton, VA, September 16-20, 2007.
372. Guest, J.S., A.J. Pinto, N.G. Love, and A. Shaw. Corrective action strategies for enhanced biological phosphorus removal wastewater treatment plants during short-term and prolonged toxic shock events. Podium Presentation. Virginia American Water Works Association and Virginia Water Environment Association Water Joint Annual Meeting 2007 (Water JAM), Hampton, Virginia, September 16-20, 2007. *Winner 2007 Best Student Paper Award*.
373. Kelly, R. T. and Love, N. G. 2007. Detecting nitrification problems: A comparison of methods. Podium presentation at the Pacific Northwest Clean Water Association Annual Conference, September 9-12, 2007, Vancouver, British Columbia.
374. Guest, J. S., Naha, S., Frey, S., Sole, J.D., Love, N.G., Puri, I.K., Ellis, M. W. 2007. Development of a Nitrifying Microbial Fuel Cell for Sustainable Wastewater Treatment. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation. *First Place Student Poster – Environmental Technologies Category*.
375. Zhao, Z., Knowlton, K. F., Love, N. G. 2007. Can we remove estrogens in dairy manure during storage? Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation. *First Place Student Poster - Natural Environment Category*.
376. Pinto, A.J., Guest, J.S., Love, N.G., Shaw, A. 2007. Process controls at nutrient removal wastewater treatment plants during toxic shock events. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.

377. Khunjar, W. O., Baik, S., Celiz, D., Yi, T., Henriques, I. D. S., Love, N. G., Aga, D. S., and Harper Jr., W. F. 2007. Evaluation of the fate of environmentally relevant micropollutants. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
378. Gilmore, K. R., Love, N. G. and Smets, B. F. 2007. Nitrification and autotrophic nitrogen removal in a hollow-fiber membrane-aerated biofilm reactor. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
379. Ikuma, K., Henriques, I. D. S., Rzigalinski, B. A., Love, B. J., and Love, N. G. 2007. Predicting the public health impact of oxidative toxins using a bacterial glutathione-gated potassium efflux stress response biosensor. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
380. Fraga-Muller, J., Ikuma, K., Stevens, A. M., and Love, N. G. 2007. Organic contaminants cause increased antibiotic resistance in *Pseudomonas aeruginosa*. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
381. Gungor, K., Arogo Ogejo, J. Knowlton, K. F., Love, N. G. 2007. Biological phosphorus removal to produce "Designer Manures" for dairy farms. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
382. Arogo Ogejo, J., Gungor, K., Wen, Z., Hu, Z., Yao, T., Love, N. G., Knowlton, K. F. 2007. Recovery of phosphorus from dairy manure as struvite. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
383. DeBusk, J., Arogo Ogejo, J., Love, N. G., Knowlton, K. F. 2007. Adjusting N:P ratios in liquid dairy manure through nitrification and chemical phosphorus removal to match crop fertilizer requirements. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
384. Beck, J., Gilmore, K. R., Knowlton, K. F., Arogo Ogejo, J., Love, N. G. 2007. Nitrogen removal from dairy waste using deammonification fueled by fermented dairy manure. Virginia Tech's Deans' Forum on the Environment. Blacksburg, VA. February 26, 2007, poster presentation.
385. Muller, J. F., Stevens, A. M. and Love, N. G. 2006. Organic contaminants cause increased antibiotic resistance in *Pseudomonas aeruginosa*. Poster presentation. Environmental Science – Water Gordon Research Conference, June 25-30, 2006, Holderness School, Plymouth, New Hampshire.
386. Zhao, Z., Knowlton, K. F., Love, N. G., and Fang, Y. 2006. Estrogen content of treated dairy manure. Virginia Water Science and Technology Symposium, November 1-3, 2006, Blacksburg, VA. 2006 Best Student Presentation Award.
387. Capuno, R. E., Love, N. G. and Smets, B. F. 2006. Mathematical modeling of nitrogen removal via a coupled nitrification:anaerobic ammonia oxidation biofilm in a hollow fiber membrane bioreactor. Virginia Water Environment Association Annual Meeting, May 1-3, 2006, Roanoke, VA. 2006 Best Student Paper Award.
388. Muftugili, M., Knowlton, K. F., and Love, N. G. 2005. Using enhanced biological phosphorus removal to minimize nutrient delivery from dairy farms to receiving waters. Presentation at AWWA/VWEA Joint Annual Meeting, Virginia Beach, Virginia, September 26-28, 2005.
389. Khunjar, W., Sweetman, P., Knowlton, K. F., Smets, B. F. and Love, N. G. 2005. Treatment of anaerobically stabilized dairy waste with an oxygen limited autotrophic nitrification plus denitrification (OLAND) fixed film reactor: startup and maintenance issues. Presentation at AWWA/VWEA Joint Annual Meeting, Virginia Beach, Virginia, September 26-28, 2005.
390. Haley, M., Grandstaff, J. and Love, N. G. 2005. Solving a mystery: a case study using root cause analysis to decipher a toxic upset event. Presentation at AWWA/VWEA Joint Annual Meeting, Virginia Beach, Virginia, September 26-28, 2005.
391. Muftugili, M. B., Love, N. G. and Knowlton, K. F. 2005. Using Enhanced Biological Phosphorus Removal (EBPR) to Alter the Nitrogen:Phosphorus Ratio of Dairy Manure and to Minimize Nutrient



- Delivery to Receiving Waters, Water Environment Federation Innovative Uses of Agricultural Wastes Conference, Chicago, IL, July 1-3, 2005.
392. Xu, Y., Linares, K., Meehan, K. A., Love, N. G. and Love, B. J. 2004. pH dependent optical properties of surface modified gold nanoparticles using bovine serum albumin coating. NSTI Nanotechnology Conference and Trade Show, Boston, MA, March 2004.
  393. Kelly II, R. T. and Love, N. G. 2004. Investigating the role of oxidative stress mechanisms in chemically inhibited nitrifiers. Poster presentation. Environmental Science – Water Gordon Research Conference, June 27-July 1, 2004, Holderness School, Plymouth, New Hampshire.
  394. Sandu, S., Halleman, E. and Love, N. G. 2004. Ozone treatability and pilot-scale treatment for aquaculture effluent recovery and reuse. Presented at the International Conference on Successes and Failures in Commercial Recirculating Aquaculture, Roanoke, VA, July 2004.
  395. Fleming, D., Linares, K., Xu, Y., Love, B., Love, N. and Meehan, K. 2004. Use of immobilized bacterial elements in an environmental biosensor. The Eighth World Conference on Biosensors, Granada, Spain. May 24-26, 2004.
  396. Chakraborty, I., Rhodes, R.R., Stevens, A.M., and Love, N. G. 2004. Monitoring the adaptation of an enriched bacterial consortium in response to chemical stressors using DGGE and sequencing. Poster Presentation, 10<sup>th</sup> International Symposium on Microbial Ecology, Cancun, Mexico, August 22-27, 2004.
  397. Kelly, R. T. and Love, N. G. Mechanisms of chemical inhibition of nitrification in wastewater treatment. Virginia Water Environment Association, Roanoke, VA, May 2003. 2003 Best Student Paper Award.
  398. Leung, S.M., Little, J. C., Holst, T., and Love, N. G. 2003. Oxygen transfer and consumption in a biological aerated filter. Virginia Water Environment Association, Roanoke, VA, May 2003.
  399. Dauphinais, J. L. and Love, N. G. 2003. Determination of toxic inhibition potential from industrial dischargers to a POTW using a respirometric assay. Virginia Water Environment Association, Roanoke, VA, May 2003.
  400. Bott, C.B., Henriques, I. D. S., Kelly, R. T., Dauphinais, J. L., and Love, N. G. 2002. WERF - Upset early warning systems for biological wastewater treatment. *Proceedings of the Water Environment Federation 8th Annual Industrial Wastes Technical and Regulatory Conference*, Atlantic City, New Jersey, August 11-14, 2002.
  401. Holbrook, R.D., Novak, J. T. and Love, N. G. 2002. The role of particulate and colloidal material in the fate and transport of endocrine disrupting compounds. Joint Annual Meeting of the Virginia Water Environment Association and Virginia American Water Works Association, September 2002, Virginia Beach, VA.
  402. Leung, S., Holst, T., Love, N. G. and Little, J. C. 2002. A fundamental investigation of oxygen utilization in a biological aerated filter. Joint Annual Meeting of the Virginia Water Environment Association and Virginia American Water Works Association, September 2002, Virginia Beach, VA.
  403. Kelly, R. T. II, Henriques, I. D. S., Dauphinais, J. and Love, N. G. 2002. Evaluation of source-effect relationships for activated sludge response to shock loads of disruptive chemical toxins. Joint Annual Meeting of the Virginia Water Environment Association and Virginia American Water Works Association, September 2002, Virginia Beach, VA.
  404. Wimmer, R. F. and Love, N. G. 2002. Activated sludge deflocculation in response to chlorine addition: the potassium connection. Joint Annual Meeting of the Virginia Water Environment Association and Virginia American Water Works Association, September 2002, Virginia Beach, VA.
  405. Love, N. G. and Bott, C. B. 2002. In search of physiological mechanisms linked to wastewater treatment malfunctions caused by toxic chemicals. Oral presentation. Gordon Research Conference on Microbial Stress Responses. July 14-19, Salve Regina University, Newport, Rhode Island.

406. Brazil, B. L. and Love, N. G. 2002. Design and implementation of a pilot-scale nitrogen removal system employing fermentation of endogenous carbon sources to treat an aquaculture waste stream. Aquaculture America 2002, Jan. 27-30, San Diego, CA.
407. Wimmer, R. F. and Love, N. G. 2001. Potassium efflux as a bacterial defense mechanism against chlorinated disinfectants. Virginia Water Environment Association Annual Meeting, May 2001. Williamsburg, VA. *2001 Best Student Research Paper Award.*
408. Brazil, B. L. and Love, N. G. 2001. Design and implementation of a pilot-scale nitrogen removal system employing fermentation and endogenous carbon sources to treat an aquaculture waste stream. Virginia Water Environment Association Annual Meeting, May 2001. Williamsburg, VA.
409. Bott, C. B. and Love, N. G. 2000. Mechanistic evaluation of activated sludge deflocculation in response to shock loads of electrophilic xenobiotic chemicals. Virginia Water Environment Association Annual Meeting, May 2000, Roanoke, VA. *2000 Best Student Research Paper Award.*
410. Ma, G. and Love, N. G. 1999. BTX biodegradation under anoxic, microaerobic, and aerobic conditions in activated sludge sequencing batch reactors. Podium presentation. Virginia Water Environment Association Annual Meeting, May 1999, Tyson's Corner, VA. *1999 Best Student Research Paper Award.*
411. Love, N.G., Delahave, A., Gilmore, K. R., Holst, T., Husovitz, K. J., Little, J. C., and Novak, J. T. 1999. Performance of a two-stage biological aerated filter system treating domestic wastewater for BOD and ammonia removal – pilot-scale results. Podium presentation. Virginia Water Environment Association Annual Meeting, May 1999, Tyson's Corner, VA.
412. Love, N. G. 1999. The Applicability of the Microbial Stress Response as an Indicator for In Situ and Up-Stream Wastewater Treatment Monitoring. Invited podium presentation. Virginia Water Environment Association Industrial Waste and Pretreatment Seminar, Charlottesville, VA.
413. Ma, G., Bilyk, K. and Love, N. G. 1999. Nitrite accumulation and inhibition during denitrification. Poster presentation. Virginia Water Environment Association Industrial Waste and Pretreatment Seminar, Charlottesville, VA. *2<sup>nd</sup> Place Best Student Research Award.*
414. Phipps, S., Love, N. G., and Novak, J. T. 1999. Dewatering of oily wastewater sludge. Poster presentation. Virginia Water Environment Association Industrial Waste and Pretreatment Seminar, Charlottesville, VA. *3<sup>rd</sup> Place Best Student Research Award.*
415. Love, N. G., Duncan, A. J., and Bott, C. B. 1998. Detection of Hsp60 in activated sludge following heat shock and exposure to xenobiotic compounds. Poster presentation. Gordon Research Conference on the Microbial Stress Response, New England College, Henniker, NH.
416. McInnis, J., Love, N. G., and Novak, J. T. 1998. Pilot Study of Aerobic Treatment of Waste Oily Sludge. Podium presentation. Virginia Water Environment Association Annual Meeting, Norfolk, Virginia.
417. Fallon, A., Novak, J. T., and Love, N. G. 1998. Biological Treatment of Oily Sludge: Laboratory Studies. Podium presentation. Virginia Water Environment Association Annual Meeting, Norfolk, Virginia. *1998 Best Student Research Paper Award.*
418. Phillips, J., and Love, N. G. 1997. Denitrification of recirculating aquaculture system waters using an upflow fixed film bioreactor. Podium presentation. Virginia Water Environment Association Annual Meeting, Roanoke, Virginia. *1997 Best Student Research Paper Award.*
419. Perri, K. L., and Love, N. G. 1997. The effectiveness of sequential treatment strategies on the treatability of a high strength industrial wastewater. Podium presentation. Virginia Water Environment Association Annual Meeting, Roanoke, Virginia.
420. Love, N. G. and Grady, C. P. L. Jr. 1994. The impact of second substrates on the expression of a TOL plasmid. Poster presentation. Gordon Research Conference on Environmental Sciences: Water, New Hampton, New Hampshire.

421. Hegan (Love), N. G. and Pfeffer, J. T. 1987. Using oxidation-reduction potential as a monitoring device for biological phosphorus removal systems. Podium presentation. Texas Water Pollution Control Association Annual Meeting, Corpus Christi, Texas.

### **FUNDED PROJECTS**

(Total Value: \$29.3 million; Share Value: \$7.4 million)

#### **Research Support Received – External Programs**

(Total Value: \$21.6 million; Share Value: \$5.8 million)

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| 1.  | Love, N. G. An effect-directed monitoring program for SWIFT effluent-Yr 2. Hampton Roads Sanitation District  | \$130,000<br>3/1/17-continuing<br>100% share |
| 2.  | Love, N. G., J. P. Newell, M. Arabi, T. Bradley and S. P. McElmurry. Planning Grant: Engineering Research Center for Regenerative, Restorative and Resilient Community Infrastructure Systems (R3CIS). National Science Foundation.   | \$100,000<br>09/18 – 08/20<br>100% share     |
| 3.  | McElmurry, S. P., M. Seeger, N. G. Love, B. Kerkez, J. A. MacDonald Gibson. COLLABORATIVE PROPOSAL: CRISP 2.0 Type 2 – Water and Health Infrastructure Resilience and Learning (WHIRL). National Science Foundation.  | \$2 million<br>09/18 – 08/22<br>5% share     |
| 4.  | Love, N. G., V. Bertacco, B. Kerkez, L. Larsen. IRES: Advancing Cyber-Enabled, Decentralized Water Systems in Rapidly Developing Cities. National Science Foundation.   | \$249,989<br>09/17 – 08/20<br>25% share      |
| 5.  | Lastoskie, C. and N. G. Love. Workshop: Advancing Healthy Communities – the 2017 AEESP Meeting. National Science Foundation.  | \$49,999<br>01/17 – 12/17<br>50% share       |
| 6.  | Kerkez, B. and N. G. Love. Dynamic collection system reconfiguration through real-time modeling and control. Great Lakes Water Authority  | \$131,864<br>5/22/17-11/21/18<br>10% share   |
| 7.  | Daigger, G. T. and N. G. Love. Characterizing the performance and operational characteristics of the bioreactors at the Detroit, MI wastewater treatment plant. Great Lakes Water Authority.  | \$100,000<br>5/1/17-4/30/17<br>10% share     |
| 8.  | Daigger, G. T. and N. G. Love. Traverse City regional wastewater treatment plant's comma-shaped Gram positive bacteria study. Traverse City Regional Wastewater Treatment Plant.  | \$120,000<br>9/1/16-12/31/17<br>25% share    |
| 9.  | Love, N.G., D. S. Aga, R. Hardin, A. Noe-Hays, and K. R. Wigginton. INFEWS/T3: Advancing technologies and improving communication of urine-derived fertilizers for food production within a risk-based framework. National Science Foundation.  | \$3 million<br>9/1/16-8/31/20<br>23% share   |
| 10. | McElmurry, S. (PI, Wayne State University), multiple co-PIs, N. G. Love is co-PI for project and PI for UM. Flint Area Community Health and Environment Partnership (FACHEP) Phase II Study-Enhanced disease surveillance and environmental monitoring in Flint, Michigan. State of Michigan Department of Health and Human Services. | \$2 million<br>8/1/16-12/31/17<br>~4% share  |
| 11. | Xu, M., J. Johnson, N. G. Love, S. Miller and J. Newell. UNS: U.S.-China: Integrated systems modeling of food-energy-water (FEW) nexus for urban sustainability. National Science Foundation.   | \$499,990<br>6/1/16-5/31/20<br>10% share     |
| 12. | Love, N.G. and T. M. Olson. RAPID: Assessing microbiological quality across point-of-use filters deployed in Flint, MI. (\$30,250 cost share from College of Engineering). National Science Foundation.   | \$49,999<br>4/1/16 – 3/31/2017<br>50% share  |
| 13. | Newell, J. P., G. T. Daigger, N. McClintock, A. Ramswami, J. Vandermeer. N.G. Love Senior Personnel and one of three proposal authors (with Newell and  | \$69,242<br>7/01/15 – 12/31/15               |

	Daigger). FEW Workshop: "Scaling Up" Urban Agriculture to Mitigate Food-Energy-Water Impacts. National Science Foundation.	30% share
14.	Love, N.G. and C. B. Bott. GOALI: Developing Sensor-Mediated Control Strategies that Allow Innovative Treatment of Nitrogen in Wastewater. National Science Foundation.	\$330,000 9/1/14 – 8/31/18 100% share
15.	Wigginton, K. R., N. G. Love, J. Jimenez, A. Noe Hayes, D. S. Aga, C. B. Bott. Nutrient Recovery Through Urine Separation. Water Environment Research Foundation EPA Water Center.	\$554,034 5/1/14 – 12/31/15 10% share
16.	Raskin, L. and N. G. Love. Evaluation of Waste Activated Sludge Anaerobic Contactor (WASAC™) as a Process for Energy Conservation at Domestic Wastewater Treatment Plants. Carollo Engineering.	\$104,481 3/1/2013-4/30/2014 50% share
17.	Love, N.G., L. Raskin, C. Bott, S. Skerlos and A. Salvesson. Low Energy Alternatives for Activated Sludge-Advancing Anaerobic Membrane Bioreactor Technology. Water Environment Research Foundation.	\$527,000 1/1/2013-12/31/2014 33% share
18.	Burns, M. A. and N. G. Love. Point-of-Use Water Quality Assessment (Sensors for Faucets). MASCO Inc.	\$583,868 9/1/12-8/31/15 10% share
19.	Linden, K., D. S. Aga and N. G. Love. Demonstrating Advanced Oxidation/Biofiltration for Pharmaceutical Removal in Wastewater. Water Environment Research Foundation.	\$150,000 3/1/2012-8/31/2013 10% share
20.	Raskin, L., S. J. Skerlos and N. G. Love. Low-temperature Anaerobic Membrane Bioreactors for Sustainable Domestic Wastewater Treatment. National Science Foundation (CBET-1133793)	\$404,365 9/1/11 – 8/31/14 10% share
21.	Olson, T. and N. G. Love. Point-of-Use Devices as Incubators of Halogenated Phenol-Mediated Antibiotic Resistant Bacteria. National Science Foundation (CBET-1067450) (includes \$55,669 supplement to support dissertation work of Mr. Bayable Atnafu Kassa of Addis Ababa University)	\$373,556 5/1/11 – 4/30/15 50% share
22.	Love, N. G., J. S. Guest and S. J. Skerlos. Quantitative Sustainable Design of Chesapeake-Elizabeth WWTP Upgrade Alternatives	\$8,500 1/1/11-6/30/11 33% share
23.	Love, N. G. Understanding Microaerobic Metabolism in a Sustainable World. Water Environment Research Foundation	\$149,312 2/1/10–3/31/12 100% share
24.	Savage, P. E., G. Keoleian, A. Matzger, S. Linic, and N. Lin (Senior Personnel = H. Wang and N. G. Love). EFRI HyBi: The Science and Engineering of Microalgae Hydrothermal Processing. National Science Foundation (EFRI 0937992)	\$2,000,000 9/1/09-8/31/13 2% share
25.	Love, N. G., K. Linden and D. S. Aga. Demonstrating Advanced Oxidation Technologies on Pharmaceutical Removal Downstream of Biological Treatment. Water Environment Research Foundation.	\$80,000 1/1/10-5/15/11 34% share
26.	Love, N. G. and L. Raskin. MSB – Investigating the Relationship Between Structural Diversity and Functional Resilience to Stress in Ammonia Oxidizers. National Science Foundation (IOS-0919629)	\$312,560 9/1/09-8/31/11 50% share
27.	Raskin, L., S. J. Skerlos and N. G. Love. Anaerobic Membrane Bioreactors for Sustainable Wastewater Treatment. Water Environment Research Foundation	\$159,938 5/1/09-4/30/11 10% share

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| 28. | Bott, C. B., Schafran, G., Mulholland, M. and Love, N. G. Integrated Fixed-Film Activated Sludge (IFAS) Demonstration Project at the James River Wastewater Treatment Plant (JRWWTP). Hampton Roads Sanitation District  | \$100,000<br>4/1/08–3/31/09<br>30% share      |
| 29. | Bronk, D., Canuel, E., Hatcher, P., Love, N. G. and Mulholland, M. Collaborative Research: Assessing the Bioavailability of Effluent Organic Nitrogen Along a Freshwater to Saltwater Continuum. National Science Foundation (NG Love original PI, shifted to co-PI upon moving to MI) | \$448,073<br>4/1/08–3/31/10<br>8% share       |
| 30. | Love, N. G., Ellis, M., Puri, I. Development of a Nitrifying Microbial Fuel Cell for Sustainable Wastewater Treatment. Water Environment Research Foundation   | \$155,869<br>3/15/07–3/14/09<br>50% share     |
| 31. | Edwards, M. and Love, N. G. Effects of Nitrification on Distribution System Materials. American Water Works Research Foundation  | \$350,000<br>1/15/07–11/15/09<br>8% share     |
| 32. | Love, N. G. Anammox Studies in Association with DC Water and Sewer Authority. District of Columbia Water and Sewer Authority   | \$95,000<br>9/1/06–8/31/08<br>100% share      |
| 33. | Love, N. G. Development of Response Protocols for Wastewater Treatment Plants Exposed to CBR Contaminants. Water Environment Research Foundation.  | \$300,000<br>1/1/06–8/31/08<br>100% share     |
| 34. | Love, N. G. Preliminary Nitrification Experiments in Support of the Reject Water Treatment Study for The Blue Plains Advanced Wastewater Treatment Facility. District of Columbia Water and Sewage Authority.  | \$32,133<br>12/24/05–6/24/06<br>100% share    |
| 35. | Love, N. G. Planning, Mobilization, Enrichment and Evaluation of Anammox Organisms. District of Columbia Water and Sewage Authority.   | \$7,364<br>11/15/05–9/30/06<br>100% share     |
| 36. | Love, N. G. and Love, B. J. Detection of Toxins in the Water Supply. National Institute of Standards and Technology.   | \$75,000<br>10/1/05–9/29/06<br>50% share      |
| 37. | Love, N. G., Aga, D. S. and Harper, W. J. Collaborative Research: The Biotransformation of Hydrophobic and Hydrophilic Pharmaceuticals and their Metabolites by Nitrifying and Heterotrophic Cultures, National Science Foundation.  | \$414,196<br>6/1/2005–5/31/2009<br>26% share  |
| 38. | Bonner, J. S., Love, N. G., Jones, K. L., Zaslavsky, I., Baru, C. K., Fountain, T., Wentling, T. L., Collaborative Large-Scale Engineering Analysis Network for Environmental Research for the Coastal Margin, National Science Foundation.  | \$85,309<br>8/1/2004–7/31/2005<br>8% share    |
| 39. | Love, N. G., Knowlton, K. F. and Smets, B. F. Wastewater Treatment to Minimize Nitrogen Delivery from Dairy Farms to Receiving Waters. The Cooperative Institute for Coastal and Estuarine Environmental Toxicology.   | \$214,200<br>9/1/2004–8/31/2006<br>60% share  |
| 40. | Love, N. G. and Smets, B. F. Integrated Biotreatment Technology for Nitrogen-Rich Wastewaters in Advanced Life Support Systems. NASA.  | \$419,119<br>10/1/2004–9/30/2007<br>90% share |
| 41. | Shaw, A. and Love, N. G. Feasibility Testing of Support Systems to Prevent Upsets. Water Environment Research Foundation.  | \$175,000<br>3/1/04–2/28/06<br>15% share      |
| 42. | Vikesland, P. and Love, N. G. Treatability Evaluation of Three Chlorinated Organic Compounds. Parsons Corporation.   | \$115,730<br>12/19/03–12/31/04<br>50% share   |

43. Vikesland, P. and Love, N. G. Effects of Dissimilatory Iron Reducing Bacteria on the Longevity of Iron Permeable Reactive Barriers. Virginia Water Resources Research Center. \$18,500  
7/1/03–6/30/04  
20% share
44. Knowlton, K. F., Love, N. G. and Mullins, G. Wastewater Treatment to Minimize Nutrient Delivery from Dairy Farms to Receiving Waters. The Cooperative Institute for Coastal and Estuarine Environmental Toxicology. \$278,934  
9/1/03–8/31/05  
40% share
45. Love, N. G., Meehan, K. A., Love, B. J. A Microfluidic Biosensor for Environmental Monitoring. U. S. Environmental Protection Agency Midwest Hazardous Substances Research Center. \$279,022  
10/1/03–9/30/06  
34% share
46. Love, N. G. Factors Affecting the Performance of Acid Phase Digesters Treating Municipal Sludges: Stage I. District of Columbia Water and Sewer Authority. \$24,382  
6/3/02–11/30/02  
100% share
47. Vikesland, P., Love, N. G. and DiGiano, F. Assessment of Seasonal Practices and Impacts to Chloraminating Utilities. American Waterworks Association Research Foundation. \$528,362  
7/1/02–1/1/05  
22% share
48. Little, J. D. and Love, N. G. Optimizing a Biological Aerated Filter. Virginia Center for Innovative Technology. \$30,000  
3/1/02–10/31/02  
50% share
49. Little, J. C., Filz, G., Berry, D., Eick, M., Hochella, M., Love, N., Schreiber, M., Widdowson, M. GAANN: An Interdisciplinary Program in Environmental Biogeochemistry. US Dept of Education. Phase I: \$432,855  
8/16/01–8/15/04  
17% share  
Phase II: \$373,599  
8/16/04–8/15/07  
8% share
50. Novak, J. T., Holbrook, D., Love, N. G. Endocrine Disrupting Potential in Wastewater Effluents and Biosolids. Virginia Water Resources Research Center. \$19,200  
7/1/01–6/30/02  
33% share
51. Love, N. G. and Little, J. C. Development of a Fundamentally-Based Model of a Biological Aerated Filter. Degremont North American Research and Development, Inc. \$55,420  
6/11/01–8/10/02  
50% share
52. Novak, J. T., Holbrook, D., Love, N. G. Endocrine Disrupting Potential in Wastewater Effluents and Biosolids. Virginia Water Resources Research Center. \$19,200  
7/1/01–6/30/02  
33% share
53. Bishop, P., Love, N. G., and Stevens, A. M. Adaptation of subsurface microbial biofilm communities in response to chemical stressors. EPA Hazardous Substance Research Center (Purdue University). \$214,000  
9/1/01–8/31/03  
50% share
54. Love, N. G., Upset early warning systems for biological treatment processes: fundamental studies on source-cause-effect relationships, Water Environment Research Foundation. \$326,646  
1/1/01–4/30/04  
100% share
55. Novak, J. T., Love, N. G., and Hughes, J. M. Testing of a Package Wastewater Treatment System and Consultation Services for UTD, Inc., UTD, Inc. STTR II. \$150,100  
10/1/00–5/1/02  
45% share
56. Love, N. G. and Love, B. J. New technologies: integrating microfluidics, materials science and microbiology: biosensors for protecting wastewater treatment systems. National Science Foundation. \$105,050  
9/1/00–12/31/02  
75% share
57. Love, N. G., Grizzard, T., and Novak, J. T. Virginia Tech's Plan of Study for the Loudoun County Sanitation Authority Broad Run Advanced Wastewater Treatment Pilot Plant Study. CH2M Hill, Inc. \$126,564  
8/15/00–5/31/01  
30% share

58.	Love, N. G. Monitoring the full-scale Biofor® biological aerated filter system at Roanoke, VA. Inflico Degremont, Inc.	\$30,000 12/24/99–2/15/01 100% share
59.	Love, N. G. and Bott, C. B. Assessment and framing workshop on upset early warning systems. Water Environment Research Foundation.	\$81,064 6/30/99–7/1/00 75% share
60.	Love, N. G. and Stevens, A. M. Characterizing nitrifying bioaugmentation cultures. Sybron Chemical Company and Virginia Center for Innovative Technology.	\$90,000 9/1/98–6/30/00 50% share
61.	Love, N. G. Evaluating protein induction patterns in industrial activated sludge cultures. Eastman Chemical Company.	\$43,294 12/1/97–12/31/98 100% share
62.	Love, N. G., Little, J. C., and Novak, J. T. A Fundamentally-based investigation into the operational potential of the Biofor® biological aerated filter. Degremont North American Research and Development, Inc., with matching from the Virginia Center for Innovative Technology.	\$95,592 9/97–12/98 50% share
63.	Widdowson, M. A. Love, N. G., and Novak, J. T. Evaluation of intrinsic bioremediation at the Douge Creek Subdivision, Ft. Belvoir, VA. Horne Engineering Services, Inc.	\$28,800 9/16/96–9/16/97 10% share
64.	Love, N. G., Widdowson, M. A., and Novak, J. T. An investigation into the use of biologically-based treatment technologies for waste oil volume reduction at Norfolk Southern Corporation. Norfolk Southern Corporation and Virginia Water Resources Research Center.	\$116,835 8/1/96–8/31/98 45% share
65.	Love, N. G. Laboratory studies to assess wastewater treatment strategies for Eastman Chemical Company. Eastman Chemical Company.	\$10,000 11/15/95–3/1/97 100% share
66.	Love, N. G. The distribution and expression of BTX-degrading microorganisms in anoxic/aerobic single sludge biological treatment processes. National Science Foundation CAREER Award.	\$335,618 7/1/95–6/30/99 100% share
67.	Love, N. G. The role of anoxic zones in preventing methylethyl ketoxime inhibition of nitrification. Virginia Water Resources Research Center and AlliedSignal Chemical Company.	\$20,000 4/1/95–4/30/96 100% share
68.	Love, N. G. and Novak, J. T. The impact of industrial wastewater composition on the bioflocculation of biological sludges. Virginia Water Resources Research Center and Eastman Chemical Company.	\$30,000 2/1/95–2/29/96 50% share

**Research Support Received – Internal Programs**

**(Total Value: \$4.0 million Share Value: \$424,850)**

69.	Love, N. G., M. Zimmerman. Partnerships that Support Confident Use and Management of Point-of-Use Drinking Water Units in Flint, MI. University of Michigan Poverty Solutions Center.	\$25,000 Jan 2020-present 90% share
70.	Love, N.G., J. Eisenberg, A. Jones. Addressing the Food-WASH Nexus Across the Urban-Rural Gradient and Impacts on Childhood Stunting. University of Michigan MCubed 2.0 Program.	\$60,000 2015-2017 33% share
71.	Schwank, J., M. Bareau, G. Fisher, P. Adriaens, E. Hill, N. G. Love, R. Clarke, J. Diana, K. Wigginton, D. Scavia, A. Hoffman, S. Miller, A. Huang-Saad, J. Trumpey, L. Raskin, S. Skerlos, A. Todd. REFRESH: Researching Fresh	\$2,998,832 7/1/14 – 6/30/17 1 of 17 co-PIs at 6% share each

- Solutions to the Energy/Water/Food Challenge in Resource-Constrained Environments. University of Michigan Third Century Initiative.
72. Newell, J., N. G. Love and R. Norton. Planning for Technological Innovation: Water, Infrastructure and Sustainability. University of Michigan MCubed program. \$60,000  
1/13/13 – 12/31/14  
33% share
  73. Kolars, J. D., N. G. Love, S. Fisseha, A. Burton, L. Isom, P. Yadav, J. Godfrey, and K. Sienko. A Proposal to Develop the Ethiopia-Michigan Platform for Advancing Collaborative Engagement (EM-PACE). University of Michigan Third Century Initiative. N. Love co-leads the Environmental Initiative within this program. \$297,800  
1/1/14 – 8/31/15  
1 of 8 co-PIs at 12% each
  74. Love, N. G., Skerlos, S., and Raskin, L. Global Sustainable Water Systems – Acknowledging Wastewater as a Resource. Graham Environmental Sustainability Institute, University of Michigan. \$5,000  
1/1/08–8/1/08  
34% share
  75. Love, N.G., Muller, J. F., Stevens, A. M. and Hagedorn, C. Evaluating the extent of pollution-induced antibiotic resistance in environmental bacterial strains. Virginia Water Resources Research Center. \$18,000  
7/1/06–6/30/07  
25% share
  76. Vikesland, P., Love, N. G. and Knocke, W. R. Construction of the Environmental BioNanoTechnology Laboratory (EB/NL), ASPIRES. \$82,030  
7/1/05–6/30/06  
33% share
  77. Knowlton, K. F., Love, N. G., and Ogejo, J. A. Fate of endocrine disrupting compounds in dairy manure during storage and treatment. Virginia Water Resources Research Center. \$18,000  
7/1/05–6/30/06  
33% share
  78. Hallerman, E. and Love, N. G. Scale up of water treatment and recovery system at Blue Ridge Aquaculture. Virginia Tech Commercial Fisheries and Shellfish Technologies Program \$26,569  
7/1/01–6/30/02  
50% share
  79. Love, N. G., Dietrich, A., Edwards, M., Godrej, A., Grizzard, T., Novak, J. T., Schreiber, M. Acquisition of a gas chromatograph with both mass spectrometer and flame photometric detector in support of water quality research. Virginia Tech ASPIRES program. \$88,340  
1/1/01–12/31/01  
14% share
  80. Gibson, H. W., Bevan, D. R., Love, N. G. A collaborative effort to establish a research program for developing biomimetic sensors using molecularly imprinted polymers (MIPs). Virginia Tech ASPIRES program. \$50,393  
1/1/01–12/31/01  
33% share
  81. Widdowson, M., Schreiber, M., and Love, N. G. Evaluating processes that control natural attenuation of nitrate in natural waters. Virginia Water Resources Research Center. \$5,000  
7/1/00–6/30/01  
33% share
  82. Love, N. G. and Knowlton, K. F. Development of a collaborative effort on environmentally responsible management of dairy wastes. Virginia Tech ASPIRES program plus College and Departmental matching support. \$37,944  
1/1/00–5/31/01  
50% share
  83. Stevens, A. M. and Love, N. G. Development of a *lux* reporter for the anaerobic human pathogen *Bacteroides*. Virginia Tech Optical Sciences and Engineering Research Center. \$50,000  
7/1/00–6/30/01  
10% share
  84. Love, N. G. and Brazil, B. L. Performance optimization and economic analysis of a fluidized denitrifying unit for treating aquaculture effluents. Virginia Tech Commercial Fisheries and Shellfish Technologies Program. \$57,456  
7/1/99–6/30/01  
50% share
  85. Popham, D. L., Brewer, K. J., Esen, A., Love, N. G., Rutherford, C. L., Shirley, S. W., Stevens, A. M., and Walker, R. A. Establishment of a phosphor/fluorescent imaging facility in Derring Hall. Virginia Tech ASPIRES program. \$69,200  
1/98–12/99  
2% share



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| 86. | Love, N. G. and Stevens, A. M. Development of a collaborative research effort in environmental biotechnology as applied to biological wastewater treatment systems. Virginia Tech ASPIRES program.       | \$32,080<br>1/98–12/99<br>50% share     |
| 87. | Widdowson, M. A., Love, N. G., Novak, J. T., and Berry, D. F. Intrinsic bioremediation of contaminants in groundwater and soil: A strategy for research and partnerships. Virginia Tech ASPIRES program. | \$37,300<br>4/97–3/98<br>25% share      |
| 88. | Love, N. G. Denitrification of recirculating aquaculture system waters. Virginia Tech Commercial Fisheries and Shellfish Technologies Program.   | \$6,000<br>3/1/95–6/30/96<br>100% share |
| 89. | Randall, C. W. and Love, N. G. Identification of bacterial groups in biological nutrient removal systems. Virginia CORE Research Program.  | \$4,300<br>7/1/94–6/30/95<br>50% share  |

**Institutional/ Educational Support Received – External Programs**  
(Total Value: \$3.7 million, Share Value: \$1.2 million)

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|-----|---|--|
| 90. | Love, N. G., Thole, K. A. and McCrickard, S. Development and Maintenance of a Portal Website for the NSF Advance Program, National Science Foundation.  | \$94,671<br>9/1/04–8/31/06<br>12% share      |
| 91. | Layne, P., Love, N. G. and Thole, K. A. ADVANCE Engineering Workshop, National Science Foundation.  | \$61,381<br>8/1/04–1/31/05<br>33% share      |
| 92. | McNamee, M., Hyer, P.B, Love, N. G. and Thole, K. A. ADVANCE Institutional Transformation Award for Virginia Tech. NSF. Co-initiated and co-authored proposal. Active participant from 2003–2006. | \$3,460,211<br>7/1/03–6/30/08<br>33% share   |
| 93. | Oerther, D. and Love, N. G. Workshop to Explore the Value of Applying Molecular Biology Tools in Environmental Engineering, National Science Foundation.  | \$21,400<br>10/1/01–9/30/02<br>10% share     |
| 94. | Love, N. G. Making the Connection Program, Women in Engineering Programs and Advocates Network.   | \$5,000<br>12/1/1999–1/31/2003<br>100% share |
| 95. | Little, J. C. and Love, N. G. Environmental Engineering: Creation of an electronic textbook. SUCCEED and College of Engineering Green Engineering Program.  | \$30,416<br>1/1/95–5/31/97<br>50% share      |

**INVITED SEMINARS AND PRESENTATIONS**

1. Invited Speaker – My Career Path: Seminar for CWEA-AWWA Student Chapter, California State Polytechnic University, Pomona. November 19, 2020.
2. Invited Speaker - Water Infrastructure in Resource-Constrained Shrinking and Expanding Cities: The Impact on Water Quality and Public Health. University of Arizona Department of Chemical and Environmental Engineering. September 21, 2020.
3. Invited Speaker: Rethinking America's Urban Water Infrastructure: Resource Efficiency, Access, and Public Health. University of Notre Dame, Civil and Environmental Engineering Challenges and Innovation Seminar Series. Virtual. September 17, 2020.
4. Invited Speaker. Water Infrastructure in Resource-Constrained Shrinking and Expanding Cities: The Impact on Water Quality and Public Health. Department of Environmental Engineering, Technical University of Denmark. January 17, 2020.
5. American Academy of Environmental Engineers and Scientists Kappe Lecturer

(<https://www.aees.org/kappelectureseries/kappelecturer.php>). 2019-2020. Offered two talks and presented both at most venues. Talk 1: "Rethinking America's Urban Water Infrastructure: Resource Efficiency, Access and Public Health" or Talk 2: "Environmental Engineering and Science Academic Scholarship in Service to Society: Our Role and Responsibility." Seventeen venues were selected among 20 applicants. Most venues involve more than one host school. Host schools include: Carnegie Mellon University and University of Pittsburgh; Clemson University; Georgia Tech; Michigan State University and Wayne State University; North Carolina State University; Old Dominion University; Rice University; University of Houston and University of Texas-Austin; Wilkes University; University of California-Merced; University of Cincinnati; University of Iowa; University of Minnesota; University of Nebraska-Lincoln; University of Rhode Island; University of Tennessee-Knoxville; University of Washington; University of Wisconsin.

6. Invited Keynote Speaker: The Microbiology of Drinking Water Systems in Shrinking and Expanding Resource-Constrained Cities and the Link to Public Health. International Water Association Microbial Ecology of Water Engineering (MEWE) Biannual Conference, Hiroshima, Japan, November 2019.
7. Invited Keynote Speaker: Achieving Resource Efficiency through Urine Separation and Nutrient Recovery: Advancing Hybrid Solutions for a Sustainable Future. Virginia Water Environment Association Education Seminar, May 8-9, 2019, Richmond, VA.
8. Invited Plenary Speaker: Shrinking and Expanding Urban Water Systems in Resource-Constrained Cities: the Link to Public Health. TransCon2019: Understanding and Managing Microbial Transformation of Environmental Contaminants, Monte Verita, Ascona, Switzerland. April 28 to May 3, 2019.
9. Invited speaker: The Microbial Characteristics of Drinking Water in Flint, MI: The Point-of-Use "Lead" Filter Field Study. Texas A&M University Department of Civil Engineering Environmental and Water Resources Seminar Series. March 4, 2019.
10. Invited speaker: Progress with Source Separation and Conversion to Fertilizer. Water Environment Federation Forum 2019: James Barnard Research Conference on Emerging Themes on Biological Phosphorus Removal and Recovery. January 14-15, 2019, Austin, TX.
11. Invited speaker: A Field Study of Microbial Changes Across Activated Carbon Block Point of Use Filters Deployed During the Flint Water Crisis. University of California-Davis. May 22, 2018.
12. Keynote speaker. "Water Infrastructure in Shrinking and Expanding Cities: The Impact on Water Quality and Public Health". Integrity of Creation Conference, The Global Water Crisis, Duquesne University. September 27-28, 2017, Pittsburgh, PA.
13. Invited speaker: Microbiome at the Global Tap: Understanding Microbial Colonization of Point-of-Use Drinking Water Filters. 14<sup>th</sup> Annual USEPA Drinking Water Workshop: Small Systems Challenges and Solutions, Cincinnati, OH, August 22-24, 2017.
14. Distinguished Lecture. Borchardt and Glysson Collegiate Professorship Induction. "At the interplay of water and health." Borchardt Conference, University of Michigan, February 22, 2017.
15. Distinguished Lecture. "The interplay between chemicals and microbiomes: an environmental biotechnology perspective." Wayne State "Water at Wayne" Lecture Series, Feb 1, 2017.
16. Invited speaker. "Microbiome at the Global Tap: Understanding microbial colonization of point-of-use drinking water filters." Marquette University, January 25, 2017
17. Invited speaker. "A Balancing Act: Achieving Nutrient Recovery via Urine-Derived Fertilizers while Managing Emerging Contaminants." University of Buffalo, November 11, 2016.
18. Distinguished Lecture. "At the Confluence: Nutrients, Trace Chemicals and Sustainability in the Urban Water Sector." Cornell University, October 24, 2016.
19. AEESP Distinguished Lecturer. 2015-2016 academic year. Presented one of two talks: "The Interplay Between Chemicals and Microbiomes: An Environmental Biotechnology Perspective", or "At the



RESOLUTION NO.:

210229

PRESENTED:

MAY 19 2021

ADOPTED:

**RESOLUTION FOR THE APPOINTMENT OF SHAWN P. MCELMURRY TO THE WATER  
SYSTEM ADVISORY COUNCIL**

**BY THE MAYOR:**

**WHEREAS**, pursuant to the State of Michigan's administrative rules section 325.10410(7), water supplies serving a population of 50,000 or more, and consecutive systems serving a population of 50,000 or more, shall create a water system advisory council;

**WHEREAS**, the council shall consist of at least five members, appointed by the community supply;

**WHEREAS**, the purpose of this council is to improve transparency in the City of Flint community by developing materials and advising the water system on public awareness and education efforts.


**WHEREAS**, to be eligible for appointment to the council, an individual shall have a demonstrated interest in or knowledge about lead in drinking water and its effects;

**WHEREAS**, the council will develop plans for continuing public awareness about lead in drinking water, even when the action level is not exceeded; review public awareness campaign materials provided by the statewide drinking water advisory council to ensure the needs and interest of the community, considering the economic and cultural diversity of its residents, are addressed; advise and consult with the water supply on the development of appropriate plans for remediation and public education to be implemented if a lead action level is exceeded; advise and consult with the water supply on efforts to replace private lead service lines at locations where the owner declined service line replacement; assist in promoting transparency of all data and documents related to lead in drinking water within the water supply service area

**WHEREAS**, Mayor Neeley desires to appoint Shawn P. McElmurry to the Water System Advisory Council (See Attached Resume).

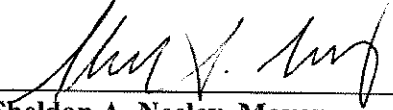
**NOW THEREFORE BE IT RESOLVED**, that Mayor Neeley hereby appoints Shawn P. McElmurry, address 2153 Engineering Building 5050 Anthony Wayne Drive, Detroit, MI 48202 to serve on the Water System Advisory Council.

**APPROVED AS TO FORM:**

  
Angela Wheeler (May 13, 2021 13:09 EDT)

Angela Wheeler, City Attorney

**FOR THE CITY OF FLINT:**

  
Sheldon A. Neeley, Mayor

**APPROVED BY CITY COUNCIL:**

Kate Fields, City Council President



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 05/13/2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** RESOLUTION APPOINT MEMBERS TO THE WATER SYSTEM ADVISORY COUNCIL

**PREPARED BY:** Lottie Ferguson, Chief Resilience Officer  
(Please type name and Department)

**VENDOR NAME:** N/A

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

In July 2018, the State of Michigan's Department of Environment, Great Lakes and Energy (EGLE) established the Lead and Copper Rule (LCR) under the Michigan Safe Water Drinking Act 399.

The purpose of the LCR is to minimize lead and copper in drinking water and indicates that a Water System Advisory Council (WSAC) is to be established on behalf of cities with 50,000 or more people served by its municipal water system. The WSAC is responsible for assisting with public awareness to create transparency and consumer confidence through statewide efforts of public education and action steps to ensure water quality through: water sampling, water treatment and lead service line replacement. A Council shall consist of a least five members appointed by the community supply. To be eligible for appointment to Council, an individual must have a demonstrated interest in or knowledge about lead in drinking water and its effects. At least one member must be a local resident who does not formally represent the interest of any incorporated organization.

In June 2019, the City of Flint began to establish a board for the WSAC by sending letters of interest to various community partners and members. The process of establishing the board did not see completion and was then put on hold due to a change in City administration. The open public meeting was also delayed due to the COVID-19 pandemic.

In February 2021, the Office of Public Health (OPH) sent notices of participation to public health community partners and community members and requested resumes of those individuals in order to submit an approval to Flint City Council to officially establish the Water System Advisory Council. The WSAC will be hosted by the City's OPH, who will organize and oversee the annual meeting, according to the Open Meetings Act 267. This annual meeting will inform and include the public on the City's lead and copper status, progress and next steps.

The names of the individuals who are Mayoral appointed to the Water System Advisory Council are: Dr. Lawrence Reynolds, Shawn P. McElmurry, PhD, and Benjamin Pauli, PhD, Environmental. The designated Appointees have either lived or worked within the Flint community during the Flint Water





## CITY OF FLINT

BUDGET YEAR 1 \$0

BUDGET YEAR 2 \$0

BUDGET YEAR 3 \$0

OTHER IMPLICATIONS (*i.e.*, *collective bargaining*):

STAFF RECOMMENDATION: (PLEASE SELECT): X ☐ APPROVED ☐ NOT APPROVED

DEPARTMENT HEAD SIGNATURE: Lottie Ferguson, Chief Resilience Officer  
(PLEASE TYPE NAME, TITLE)

## SHAWN P. MCELMURRY, PhD, PE

2158 Engineering Building  
5050 Anthony Wayne Dr  
Detroit, MI 48202

Office: (313) 577-3876  
E-mail: s.mcelmurry@wayne.edu

### EDUCATION

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Ph.D. Environmental Engineering, Michigan State University, 2008  
Dissertation: *Characterization of Dissolved Organic Carbon: Assessment of Copper Complexation and Export of Carbon from Watersheds as a Function of Land Use*  
Co-Advisors: Thomas C. Voice and David T. Long  
M.S. Environmental Engineering, Michigan State University, 2002  
B.S. Chemistry major, Central Michigan University, 1998

### EXPERIENCE

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2014-current Associate Professor, Department of Civil & Environmental Engineering, Wayne State University

2008-2014 Assistant Professor, Department of Civil & Environmental Engineering, Wayne State University

### RESEARCH PROJECTS IN LAST 5 YEARS (PI listed first, otherwise co-PI unless noted)

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- 2018-2022 McElmurry, S.P.; Seeger, M.; O'Donovan, K.; Sobeck, J.; Smith, R.; Kilgore, P.; Love, N.G.; Kerkez, B.; MacDonald Gibson, J.A. *CRISP 2.0 Type 2: Collaborative Research: Water and Health Infrastructure Resilience and Learning (WHIRL)*. National Science Foundation. Award #1832692 (\$1,570,000), 9/1/2018-8/31/2022
- 2020-2021 Harris, A.; Crouch, P.; McElmurry, S.P. Urban Residential Soil Lead Remediation Strategies Project. Erb Family Foundation, subcontract through EcoWorks, Cayuse Award #A17-0555. 1/1/2020-12/31/2021.
- 2018-2019 Dittrich, T.; Allen, M.; Boukhalfa, H.; Migdisov, A.; Mohanty, S.; McElmurry, S.P. AOI 2 Coupled Hydrothermal Extraction and Ligand-Associated Organosilica Media Recovery of REEs from Coal Fly Ash. U.S. Department of Energy. Award #DE-FE0031565 (\$538,849 total)
- 2017-2019 Harris, A.; Crouch, P.; McElmurry, S.P. Urban Residential Soil Lead Remediation Strategies Project. Erb Family Foundation, subcontract through EcoWorks, Cayuse Award #A17-0555. 6/1/2017-12/31/2019. (subcontract \$64,646)
- 2016-2017 McElmurry, S.P.; Kilgore, P.; Sobeck, J.; Seeger, M.; Zervos, M.; Sullivan, L. (+17 other investigators); *Flint Area Community Health and Environment Partnership (FACHEP) – PHASE II* State of Michigan, Contract #20163753-00. 6/1/2016-12/21/2017 (\$3,350,000 total)
- 2016-2017 McElmurry, S.P. *RAPID: Chemical treatment efficiency of point-of-use filters deployed in Flint, Michigan* National Science Foundation, Award #1633013 (\$49,992 total)
- 2016-2018 McElmurry, S.P.; Miller, C.J.; Pitts, D.K.; Sackey, D.J.; Seeger, M.; Masten, S.J.; Hanna-Attisha, M. *Rapid Response to Contaminants in Flint Drinking Water*. National Institute of Health; National Institute of Environmental Health Sciences. Award # 1R21ES027199-01 (\$422,110 total)
- 2016 McElmurry, S.P.; Kilgore, P.; Seeger, M.; Zervos, M.; Sullivan, L. *Flint Area Community Health and Environment Partnership (FACHEP) – PHASE I* State of Michigan (\$123,091 total)
- 2015-2018 Nassauer, J., McElmurry, S.P., Sampson, J., Webster, J., Dewar, M., Alvarez, A., Schulz, A., Burton, A., Riseng, C. *Providing support for watershed based policy and management decisions: Lake Erie and City of Detroit*. Erb Family Foundation, subcontract through The University of Michigan (\$1,116,999 total; 82,392 subcontract)
- 2015-2018 Zhang, Y., Zhou, K., Lemke, L., McElmurry, S.P. (senior personnel) *An Integrated Approach to Ensuring Food Safety and Sustainability in Urban Agriculture in the Greater Detroit Area* US Department of Agriculture, grant # 2015-70001-23424 (\$272,532 total)
- 2015-2016 Zhang, Y., Lemke, L., Zhou, K., McElmurry, S.P. *Heavy metals and the development of antibiotic resistance in urban agriculture*. Center for Urban Responses to Environmental Stressors (CURES) Pilot Project funded through National Institute of Health Grant P30 ES020957 (\$80,000 total)



- 2015 Miller, C., Zhang, Y., **McElmurry, S.**, Lemke, L., Pothukuchi, K. *A Workshop for Integrative and Sustainable Food, Energy, and Water in Transitioning Urban Landscapes*. National Science Foundation, CBET Award # 1541869 (\$28,840 total)
- 2014-2016 Caruso, J.A.; **McElmurry, S.P.**; Moldenhauer, J.; Reynolds, R.; Sackey, D.; Schroeck, N.; Stemmer, P.; Westrick, J.; Zhang, K.; Giblin, F. *Petcoke in an urban environment: A community-based participatory model*. Center for Urban Responses to Environmental Stressors (CURES) Pilot Project funded through National Institute of Health Grant P30 ES020957 (\$150,000 total)

#### AWARDS, CERTIFICATES, HONORS, and LICENSURE

- 2014, 2015 *Outstanding Reviewer Award*, Journal of Environmental Engineering, American Society of Civil Engineers
- 2013 *2013 ExCEED New Faculty Excellence in Teaching Award*, American Society of Civil Engineering
- 2012 *Outstanding Faculty Service Award*, Engineering Student and Faculty Board, College of Engineering, Wayne State University
- 2012 *Favorite Professor Award*, Wayne State University
- 2010, 2011 *Assistant Mentor ASCE ExCEED Teaching Workshop*–American Society of Civil Engineering (ASCE) – U.S. Military Academy, West Point, NY
- 2010 *Michigan Professional Engineering License* (#6201057641, date issued 09/24/2010)
- 2009 *ExCEED Fellow* –American Society of Civil Engineering (ASCE)

#### PEER REVIEWED PUBLICATIONS FROM LAST 5 YEARS

\*corresponding author, §graduate student, †undergraduate student

- [48] §Alla, L.N.R.; §Monshi, M.; §Siddiqua, Z.; §Shields, J.; §Alame, K.; §Wahls, A.; §Akemann, C.; §Meyer, D.; §Crofts, E.J.; §Saad, F.; §El-Nachef, J.; §Antoon, M.; §Nakhle, R.; §Hijazi, N.; §Hamid, M.; §Gurdziel, K.; **McElmurry, S.P.**; Kashian, D.R.; Baker, T.R.; \*Pitt, D.K. (2021) *Detection of endocrine disrupting chemicals in Danio rerio and Daphnia pulex: Step-one, behavioral screen*. Chemosphere, 271, p.129442. DOI:10.1016/j.chemosphere.2020.129442
- [47] Salim, A.; \*Kilgore, P.; Mudall, G.; **McElmurry, S.P.**; Zervos, P.K.; (2020) *Trends in Legionnaires' disease-associated hospitalizations, United States, 2006–2010*. Open Forum Infectious Diseases. DOI: 10.1093/ofid/ofaa296
- [46] \*§O'Shay-Wallace, S.; Day, A.M.; §Islam, K.; **McElmurry, S.P.**; Seeger, M.W. (2020) *Boil Water Advisories as Risk Communication: Consistency between CDC Guidelines and Local News Media Articles*. Health Communication. DOI: 10.1080/10410236.2020.1827540
- [45] \*Sobeck, J.; Smith-Darden, J.; Hicks, M.; Kernsmith, P.; Kilgore, P.E.; Treemore-Spears, L.; **McElmurry, S.P.** (2020) *Stress, Coping, Resilience and Trust during the Flint Water Crisis*. Behavioral Medicine. 46(3-4) DOI: 10.1080/08964289.2020.1729085 (PMID: 32787730)
- [43] \*§Day, A.M.; §O'Shay-Wallace, S.; Seeger, M.W.; **McElmurry, S.P.** (2020) *Gender and Presence of Children: Examining Media Uses, Informational Needs, and Source Preferences during the Flint, Michigan Water Crisis*. Journal of International Crisis & Risk Communication Research DOI: 10.30658/jicrcr.3.2.2.
- [42] \*Zahran, S.; Mushinski, D.; **McElmurry, S.P.**; Keyes, C. (2020) *Water Lead Exposure Risk in Flint, Michigan after Switchback in Water Source: Implications for Lead Service Line Replacement Policy*. Environmental Research. 181, 108928. DOI: 10.1016/j.envres.2019.108928 (NIHMSID: 1552950; PMID: 31787215)
- [41] \*§Day, A.M.; §O'Shay-Wallace, S.; Seeger, M.W.; **McElmurry, S.P.** (2019) *Informational Sources, Social Media Use, and Race in Flint, Michigan's Water Crisis*. Communication studies. DOI: 10.1080/10510974.2019.1567566 (NIHMS ID: 1518397)
- [40] Zahran, S., Iverson, T., **McElmurry, S.P.**, Weiler, S., & Levitt, R. (2019). *Hidden Costs of Blight and Arson in Detroit: Evidence From a Natural Experiment in Devil's Night*. Ecological Economics, 157, 266-277. DOI: 10.1016/j.ecolecon.2018.11.009
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- [24] \$Alghalehabakhani, F., \$Abkenar, S.M.S., Jin, S.X., \*Miller, C.J., Fracasso, P.T., **McElmurry, S.P.** (2015) *Comparative evaluation of three distinct energy optimization tools applied to real water network (Monroe)*. Sustainable Computing: Informatics and Systems. 8, 29-35. DOI: [10.1016/j.suscom.2014.11.001](https://doi.org/10.1016/j.suscom.2014.11.001)
- [23] \$Abkenar, S.M.S., \$Stanely, S.D., Chase, D.V., Miller, C.J., **McElmurry, S.P.** (2015) *Evaluation of genetic algorithms using discrete and continuous methods for pump optimization of water distribution systems*. Sustainable Computing: Informatics and Systems. 8, 18-23. DOI: [10.1016/j.suscom.2014.09.003](https://doi.org/10.1016/j.suscom.2014.09.003)
- [22] \$Rogers, M.M., \$Xu, G., \*Miller, C.J., **McElmurry, S.P.**, Shi, W., \$Wang, Y., Miller, S.S., Wang, C., \$Xu, C.Z. (2015) *HERO: A Smart-Phone Application for Location Based Emissions Estimates*. Sustainable Computing: Informatics and Systems. 8, 3-7. DOI: [10.1016/j.suscom.2014.09.001](https://doi.org/10.1016/j.suscom.2014.09.001)

For complete list go to: <https://scholar.google.com/citations?user=vtHjmu8AAAAI&hl=en>

#### OTHER ACADEMIC OUTPUT AND UNIVERSITY SERVICE (select, last 5 years)

- Love, N.G.; Jackson, R.; **McElmurry, S.P.** (2019) Water stays in the pipes longer in shrinking cities – a challenge for public health. The Conversation. 24 May 2019. <https://theconversation.com/water-stays-in-the-pipes-longer-in-shrinking-cities-a-challenge-for-public-health-116119>
- Love, N.G., Gebrie, G.S., Adejumo, H.A., **McElmurry, S.P.** (2019) Drinking Water Infrastructure in Shrinking and Expanding Cities: The Impact on Water Quality and Public Health. In G. Magil and J. Benedict (Eds) Cascading Challenges in the Global Water Crisis. Chapter Three (p. 23-39), Cambridge Scholars Publishing, ISBN: 978-1-5275-2447-7
- Zarb, A.R., **McElmurry, S.P.**, Moldenhauer, J.A. (2017) *Technical to Teachable: The Flint Water Crisis and the Design of Instructions for Assembling Water Sampling Kits*. In Design, User Experience, and Usability: Theory, Methodology, and Management, Springer.

- Zahran, S., Laidlaw, M.A.S., McElmurry, S.P., Filippeli, G.M., Taylor, M. (2015) Linking Source and Effect: Re-suspended Soil Lead, Air Lead, and Children's Blood Lead Levels in Detroit, Michigan. In A. Hassan (Ed) *Everyday Environmental Toxins: Children's Exposure Risks* (p. 163-181). Apple Academic Press: Waretown, NJ, ISBN: 978-1-77188-101-2
- US EPA Workshop titled Michigan Water, Public Health and Healthcare Coordination Workshop, 9/16/2019, Wayne State University, Detroit, MI (Organizer and presenter)
- US EPA Webinar titled A Critical Connection: The Water and Healthcare/Public Health Sectors Webinar - Healthcare/Public Health Sector Focus, 9/26/2019 (Presenter)
- US EPA Webinar titled A Critical Connection: The Water and Healthcare/Public Health Sectors Webinar - Water Sector Focus, 9/19/2019 (Presenter)

## TEACHING AND ADVISING

### *Undergraduate Courses*

- CE4210 – Introduction to Environmental Engineering (2014, 2015)*
- CE4140 – Environmental Engineering Design (2017, 2018, 2019, 2020)*
- CE5220 – Environmental Chemistry (2014, 2016)*
- CE5230 – Water Supply and Wastewater Engineering (2017, 2019, 2021)*
- CE5995 – Special Topics: Advanced Drinking Water Treatment (2016, 2019)*

### *Graduate Courses*

- CE 6150 – Hydrologic Analysis and Design (2015, 2018, 2020)*
- PSC/CE6910 – Waste Pharmaceuticals: Environmental Impact and Management (2015)*
- CE7260 – Surface Water Quality Modeling (2015)*
- CE7580 – Environmental Remediation (2016)*
- CE7995 – Special Topics: Advanced Drinking Water Treatment (2016, 2019)*

*Committee Chair of 4 Ph.D. and 4 M.S. Thesis Students*

*Committee Member of 15 Ph.D. and 4 M.S. Thesis Students*

## OTHER SERVICE

### *Committee Assignments*

- Michigan State University Department of Civil and Environmental Engineering Professional Advisory Board (2016-current)
- Graduate Program Officer, Department Civil & Environmental Engineering (2014-2016, 2020-current)
- College of Engineering P&T Committee (2016-2019)
- Wayne State University Water Safety Committee (2018-current)
- Technical Advisory Committee, Flint, MI (2015-current)
- Great Lakes Science Advisory Board's Taking Action on Lake Erie (TAcLE) work group (2012-2013). Work resulted in the following report:  
*Lake Erie Ecosystem Priority / Scientific Findings and Policy: Recommendations to Reduce Nutrient Loadings and Harmful Algal Bloom, Draft Summary Report, August 2013. International Joint Commission. Available at: <http://www.ijc.org/files/tinymce/uploaded/Draft%20LEEP-Aug29Final.pdf>*

### *Public Presentations as an Expert in Discipline*

- Featured in "Flint's Deadly Water" produced by FRONTLINE, SEASON 2019: EPISODE 16; premiered September 10, 2019 on PBS. Available at <https://www.pbs.org/wgbh/frontline/film/flints-deadly-water>.
- 67TH DISTRICT COURT FOR THE COUNTY OF GENESEE. THE PEOPLE OF THE STATE OF MICHIGAN v. NICHOLAS LYON (Nov. 15, Dec. 1, 2017)
- 67TH DISTRICT COURT FOR THE COUNTY OF GENESEE. THE PEOPLE OF THE STATE OF MICHIGAN v. EDEN WELLS (Dec. 11, 12, 2017)
- Featured technical expert on *Secrets of the Earth: Mother Nature Reclaims Buildings*, a TV show that premiered on the Weather Channel on October 27, 2014
- WJBK-TV Health Works, My Fox Detroit. Interviewed regarding Pb research (~133,000 viewers), Aired June 14, 2013 <http://www.myfoxdetroit.com/video?autoStart=true&topVideoCatNo=default&clipId=8991514>
- WDET-Radio Interview discussing resuspension of Pb, Aired March 19, 2013

### *Proposal Review Panels*

- National Institute of Environmental Health Sciences – Special Emphasis Panel
- National Institute of Environmental Health Sciences – Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants
- National Institute of Health - Social Sciences and Population Studies Study Section

- National Science Foundation - Civil, Mechanical and Manufacturing Innovation
- National Science Foundation – Chemical, Bioengineering, Environmental, and Transport Systems
- National Science Foundation - Geography and Spatial Sciences

#### Editorial Board Memberships

- *Toxics* (ISSN 2305-63040; Impact Factor = 3.271)

#### Reviewer

- *Applied Geochemistry*
- *Aquatic Geochemistry*
- *Chemosphere*
- *Desalination Water Treatment*
- *Elementa: Science of the Anthropocene*
- *Environmental Geochemistry & Health*
- *Environmental Research*
- *Environmental Science & Technology*
- *Environmental Science & Technology Letters*
- *Environmental Science: Processes & Impacts*
- *Environmental Science: Water Research & Technology*
- *Geohealth*
- *International Journal of Distributed Sensor Networks*
- *Journal of Environmental Engineering*
- *Journal of Environmental Pollution*
- *Journal of Exposure Science and Environmental Epidemiology*
- *Journal of Health and Place*
- *Landscape Architecture*
- *Photogrammetric Engineering and Remote Sensing*
- *Proceedings of the National Academy of Sciences*
- *Science of the Total Environment*
- *Sustainable Chemistry*
- *Toxics*
- *Water Science and Technology: Water Supply*



RESOLUTION NO.: 210402  
PRESENTED: AUG 18 2021  
ADOPTED: \_\_\_\_\_

**RESOLUTION TO ACCEPT A GRANT FROM CS MOTT FOUNDATION FOR THE COMPLETION OF  
THE CITY'S ANNUAL COMPREHENSIVE FINANCIAL REPORT**

**BY THE CITY ADMINISTRATOR:**

**Whereas**, the Charles Stewart Mott Foundation has awarded a grant to the City of Flint for the completion of the Annual Comprehensive Financial Report/Audit Support.

**Whereas**, Grant # 2021-08616 has been awarded in the amount of \$250,000.00 to complete the City's Annual Comprehensive Financial Report The purpose of the ACFR is to be transparent about the use of taxpayers' money and to give the public a detailed accounting of all expenditures.

**Whereas**, the FY21 adopted budget must be amended to include the awarded funds,

**IT IS RESOLVED** that the appropriate City officials are authorized to do all things necessary to accept the grant funds set forth in the grant agreement of C.S. Mott Grant #G-2021-08616 in the amount of \$250,000.00 to appropriate revenue and expenditure amounts and to make the grant funds available from June 1, 2021, through May 31, 2022.

**Approved as to Form:**

Angela Wheeler  
Angela Wheeler (Aug 11, 2021 17:25 EDT)  
**Angela Wheeler, Chief Legal Officer**

**Approved as to Finance:**

Jennifer Ryan  
Jennifer Ryan (Aug 11, 2021 15:47 EDT)  
**Shelbi Frayer, Chief Financial Officer**

CLYDE D EDWARDS  
CLYDE D EDWARDS (Aug 11, 2021 18:04 EDT)  
**Clyde D. Edwards, City Administrator**

\_\_\_\_\_  
**Kate Fields, Council President**

## **RESOLUTION STAFF REVIEW**

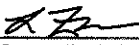
**Date:** August 11, 2021

**Agenda Item Title:**

RESOLUTION TO ACCEPT A GRANT FROM CS MOTT FOUNDATION FOR ACFR

**Prepared by:**

Lottie Ferguson, Chief Resilience Officer

  
Lottie Ferguson (Aug 11, 2021 15:39 EDT)

**Background/Summary of Proposed Action:**

On June 22, 2020, the Flint City Council adopted a resolution to enter into a three-year agreement with the auditing firm Rehmann Robson to complete the City's Annual Comprehensive Financial Report (ACFR). The purpose of the ACFR is to be transparent about the use of taxpayers' money and to give the public a detailed accounting of all expenditures. An annual government audit is not only required, but also essential to delivering an objective and independent view of the City's government programs and services. The audit also helps in providing accountability to the use of public funds. The projected cost of the upcoming ACFR for the fiscal year ending June 30, 2021 is expected to be \$250,000.

**Financial Implications:**

A grant was received in the amount of \$250,000.00 for one year for ACFR audit support.

**Budgeted Expenditure:** Yes \_\_\_ No X **Please explain, if no:**

**Pre-encumbered:** Yes \_\_\_ No x **Requisition #:** \_\_\_\_\_

**Other Implications:** No other implications are known at this time.

**Staff Recommendation:** Staff recommends approval of this resolution.

**APPROVAL**   
Martita Moffett-Page (Aug 11, 2021 15:46 EDT)

Account Number & Grant Code	Account Name	Amount
296-101.100-801.000 PCSM-AUDIT21	Professional Services	250,000



June 15, 2021

The Honorable Sheldon Neeley  
Mayor, City of Flint  
1101 S. Saginaw Street  
Flint, MI 48502-1420

Project: Audit Support  
(Grant No. 2021-08616)

Dear Mayor Neeley:

We are pleased to inform you that the Charles Stewart Mott Foundation has approved a grant in the amount of \$250,000 to the City of Flint for the above-referenced project for the period June 1, 2021 through May 31, 2022.

Grant Payments

This grant will be paid upon receipt of your acceptance.

This letter or your proposal may set forth specific goals or objectives that your organization expects to achieve during the grant period. For accounting purposes, the Mott Foundation is not requiring that your organization achieve any specific goal or objective as a condition (or barrier) to your receipt and retention of the grant funds, except for the following:

- No conditions.

The Mott Foundation reserves the right to discontinue, modify, or withhold any payments that might otherwise be due under this grant or any other outstanding grant, to require a refund of any unexpended grant funds, or both, if, in the Mott Foundation's judgment, any of the following occur with respect to this grant or any other grant from the Mott Foundation to your organization:

1. Grant funds have been used for purposes other than those contemplated by this commitment letter.

The Honorable Sheldon Neeley  
June 15, 2021  
Page 2 (Grant No. 2021-08616)

2. Such action is necessary to comply with the requirements of any law or regulation affecting either your organization's or the Mott Foundation's responsibilities under the grant.
3. Your organization ceases to conduct this project, or circumstances change such that it becomes impractical or impossible for you to carry out this project.
4. Your organization's performance under this grant has not been satisfactory, as determined by the Mott Foundation in its reasonable discretion. Although the Mott Foundation expects your organization to work toward achieving the goals and objectives described in your proposal, unless a specific condition (or barrier) is identified above, the failure to obtain any specific goal or objective will not, alone, be cause for the Mott Foundation to determine that your organization's performance has not been satisfactory, but may be relevant in determining whether your overall performance has (or has not) been satisfactory.
5. The Mott Foundation has not received and approved all reports due from your organization prior to the payment date.

The Mott Foundation's judgment on these matters will be final and binding.

#### Mott Foundation Contact Person and Resources

Please direct all correspondence and questions relating to this grant to Amy Hovey, Special Projects Coordinator.

For general information regarding Mott Foundation grant procedures and other grant related questions, we encourage you to visit the Grantee Resources section of our website at [www.mott.org/grantee-resources](http://www.mott.org/grantee-resources).

Another resource available to grantees is the Grantee Portal. The Grantee Portal provides real-time information on your grant's reporting requirements and due dates. By using the Grantee Portal, you may view a copy of this commitment letter, download copies of forms, and upload required reports directly to the Mott Foundation. For more information about the Grantee Portal, contact your program officer or login at <https://mott.fluxx.io>. The grant's primary project contact, Lottie Ferguson, can login at <https://mott.fluxx.io> with their registered email address.

#### Use of Grant

Under United States law, Mott Foundation grant funds may be expended only for charitable, scientific, literary, religious, or educational purposes, as specified in section 170(c)(2)(B) of the Internal Revenue Code of 1986, as amended. This grant is to be expended solely in support of the objectives detailed in your proposal submitted April 22, 2021.





The Honorable Sheldon Neeley  
June 15, 2021  
Page 3 (Grant No. 2021-08616)

Your organization shall not, directly or indirectly, engage in, support or promote violence or terrorist activities.

Your organization confirms that this project is under its complete control. Your organization further confirms that it has and will exercise control over the process of selecting any consultant, that the decision made or that will be made on any such selection is completely independent of the Mott Foundation, and further, that there does not exist an agreement, written or oral, under which the Mott Foundation has caused or may cause the selection of a consultant.

Mott Foundation grant funds may not be used for lobbying expenditures.

Mott Foundation grant funds may not be used for re-granting to secondary organizations.

Your organization may charge this grant only for expenditures incurred or services performed during the grant period specified in this letter.

Your organization may charge this grant only for line item expenditures that were included in your approved budget as referenced in the "Reports" section of this letter. The addition of new line items must have the prior written approval of the Mott Foundation.

Expenditures may not exceed the approved budget amount for the following line item:

- Administrative.

#### Grant Accounting

Your organization is required to maintain financial records for expenditures and receipts relating to this grant, retaining these records and other supporting documentation for five years after the grant's termination date.

Your organization is also required to permit the Mott Foundation to have reasonable access to your files, records and personnel during the term of this grant and for five years thereafter for the purpose of making financial audits, verifications, or program evaluations.

Unless a specific condition (or barrier) is listed in the "Grant Payments" section of this letter, the Mott Foundation does not intend, in its own financial statements, to treat this grant as a "conditional contribution" described under Financial Accounting Standards Board (FASB) Accounting Standards Update (ASU) 2018-08. Your organization should make its own determination as to how to account for this grant in your financial statements and is not required (under FASB ASU 2018-08) to adopt the same accounting treatment as the Mott Foundation.



The Honorable Sheldon Neeley  
June 15, 2021  
Page 4 (Grant No. 2021-08616)

### Reports

**The Mott Foundation requires the following report to be submitted for this grant:**

<b>Report Type:</b>	<b>For Period Ending:</b>	<b>Due on or Before:</b>
Final Report	May 31, 2022	July 1, 2022

**The report must include the following parts, which must be submitted together:**

1. A **narrative report** summarizing what was accomplished by the expenditure of funds during the reporting period. Your grant proposal indicated that your organization will work toward achieving certain goals and objectives during the grant period, and the narrative report should include a description of progress made toward achieving the following reporting objectives:
  - A copy of the city's comprehensive annual financial report for the fiscal year ending June 30, 2021.
2. A **financial report** showing the approved budget, expenditures against each line item since the start of the grant, and balances remaining (or overruns) for each line item. For the final report, you must explain all overrun variances that exceed both one thousand dollars (\$1,000) and ten percent (10%) of the budgeted line item amount.

**Your organization must report against the approved budget of \$250,000 submitted on April 22, 2021** (which may be greater than the amount of the Mott Foundation grant). If the approved budget covers multiple years, each report should include cumulative expenditures since the beginning of the grant period. The report must also include a summary of all funding received for this project (listed by source and grant period).

Unless a specific condition (or barrier) is listed in the "Grant Payments" section of this letter, the Mott Foundation is not requiring that your organization achieve any of the reporting objectives listed above as a condition (or barrier) to your receipt and retention of the grant funds. Rather, the reporting objectives are meant to capture your progress in achieving the goals and objectives identified in your grant proposal.

Reports and other grant requirements should be submitted online via the Mott Foundation's Grantee Portal. A default portal account has been setup for the primary project contact. The project contact can login at <https://mott.fluxx.io> with their registered email address. Please contact your program officer if you need assistance or to change the project contact. Standard reporting templates and other forms are available for download via the Grantee Portal.



The Honorable Sheldon Neeley  
June 15, 2021  
Page 5 (Grant No. 2021-08616)

#### Undisbursed Funds

Your organization is required to return any undisbursed project funds on a prorata basis to the Mott Foundation within two months after the end of this grant. The prorata refund is computed by multiplying the total undisbursed project funds by the ratio of Mott Foundation funding to total funding received for this project for the grant period. Any refund of less than \$100 will be waived.

#### Compliance with Laws

Your organization may not use any portion of the grant funds to undertake any activity for any purpose other than one specified in section 170(c)(2)(B) of the Internal Revenue Code. Further, the Mott Foundation reserves the right to discontinue, modify, or withhold any payments that might otherwise be due under this grant or to require a refund of any unexpended grant funds if, in the Mott Foundation's judgment, such action is necessary to comply with the requirements of any law or regulation.

#### Public Information

The Mott Foundation will include information on this grant in its periodic public reports. The Mott Foundation also welcomes grantees to make announcements of grants upon return of this signed commitment letter. A copy of any release should be sent to the Mott Foundation's Communications Department prior to its dissemination. The department is available to provide assistance in your communications efforts.

#### Acceptance

This letter contains the entire agreement between your organization and the Charles Stewart Mott Foundation, and there are no conditions or stipulations, oral or written, governing the use of the grant funds other than those contained in this letter.

If your organization agrees to the grant conditions as stated, please **sign and return, via DocuSign**, one complete copy of this letter **with an electronic signature** of an appropriate representative of your organization in the space provided. In countersigning this letter, this individual represents to the Mott Foundation that he/she has the authority to sign this letter on the organization's behalf.

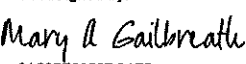
This grant may be withdrawn if the Mott Foundation has not received your acceptance within one month from the date of this letter.



The Honorable Sheldon Neeley  
June 15, 2021  
Page 6 (Grant No. 2021-08616)

On behalf of the Mott Foundation, I would like to extend our best wishes for the success of this endeavor.

Sincerely,

DocuSigned by:  
  
8A59BF0328DC4EB  
Mary A. Gailbreath  
Vice President-Administration and Secretary/Treasurer

MAG:cmm

Our organization acknowledges that appropriate personnel have read and understand this letter, that its terms and conditions are acceptable to us, and that we will comply with those terms and conditions.

Name of Grantee: City of Flint

Printed Name of Authorized Signer: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_  
(This must be an original signature of an authorized representative of the organization.)

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_



## Certificate Of Completion

Envelope Id: 643AF5ED9E0A42B6801EE32182425DDD  
 Subject: Mott Foundation Commitment Letter #2021-08616 - City of Flint  
 Source Envelope:  
 Document Pages: 6  
 Certificate Pages: 2  
 AutoNav: Enabled  
 Envelope Stamping: Enabled  
 Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Status: Sent

Envelope Originator:  
 Chelsea Mohn  
 503 S. Saginaw St.  
 Ste. 1200  
 Flint, MI 48502  
 CMohn@mott.org  
 IP Address: 68.48.141.220

## Record Tracking

Status: Original  
 6/15/2021 12:51:58 PM


Holder: Chelsea Mohn  
 CMohn@mott.org

Location: DocuSign

## Signer Events

Mary A Gailbreath  
 MGailbreath@mott.org  
 VP-Administration & Secretary/Treasurer  
 Charles Stewart Mott Foundation  
 Security Level: Email, Account Authentication  
 (None)

## Signature

DocuSigned by:  
  
 9A59BF0328DC4EB

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Electronic Record and Signature Disclosure:  
 Not Offered via DocuSign

Sheldon Neeley  
 tburn@cityofflint.com  
 Security Level: Email, Account Authentication  
 (None)

Electronic Record and Signature Disclosure:  
 Not Offered via DocuSign

Sent: 6/15/2021 9:25:49 PM

## In Person Signer Events

## Signature

## Timestamp

## Editor Delivery Events

## Status

## Timestamp

## Agent Delivery Events

## Status

## Timestamp

## Intermediary Delivery Events

## Status

## Timestamp

## Certified Delivery Events

## Status

## Timestamp

## Carbon Copy Events

## Status

## Timestamp

Lottie Ferguson  
 lferguson@cityofflint.com  
 Security Level: Email, Account Authentication  
 (None)

Electronic Record and Signature Disclosure:  
 Not Offered via DocuSign

**COPIED**

Sent: 6/15/2021 9:25:49 PM  
 Viewed: 6/15/2021 9:37:27 PM

## Witness Events

## Signature

## Timestamp

## Notary Events

## Signature

## Timestamp

## Envelope Summary Events

## Status

## Timestamps

**Envelope Summary Events**

Envelope Sent

**Status**

Hashed/Encrypted

**Timestamps**

6/15/2021 12:57:49 PM

**Payment Events**

**Status**

**Timestamps**



RESOLUTION NO.: 210413

PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

PROPOSAL/BID# 220000042

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO VULCAN SIGNS FOR UPDATED CITY OF FLINT TRAFFIC SIGNS**

WHEREAS, The City of Flint Department of Purchases and Supplies solicited sealed bids for updated traffic signs for the city for (3) years for the period of 7/1/21-6/30/24.

WHEREAS, The City of Flint Department of DPW/Transportation recommends that Vulcan Signs, 408 E. Berry Ave, Foley AL, 36535, the lowest responsive bidder, be awarded the contract for updated traffic signs compliant with the Federal Highway Administration's requirements to maintain retro reflectivity, as well as promote nighttime traffic safety.

Account Number	Account Name	Amount
202-443.201-752.000	Traffic Signs	\$ 45,000.00
203-443.201-752.000	Traffic Signs	\$35,000.00
	<b>FY22 GRAND TOTAL</b>	<b>\$80,000.00</b>

IT IS RESOLVED, That the Department of Purchases and Supplies, upon City Council's approval, is hereby authorized to enter into contract with Vulcan Signs, to provide traffic signs in the amount not to exceed \$80,000.00 for FY2022, and pending budget adoption, not to exceed \$80,000.00 for FY2023.

APPROVED AS TO FORM:

Angela Wheeler  
Angela Wheeler (Aug 31, 2021 15:36 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

Robert J. F. Widigan

Robert Widigan, Interim Chief Financial Officer

FOR THE CITY OF FLINT:

CLYDE D EDWARDS  
CLYDE D EDWARDS (Aug 31, 2021 15:58 EDT)

Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

Kate Fields, City Council President

APPROVED AS TO PURCHASING:

Lauren Rowley

Lauren Rowley, Purchasing Manager



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** July 17, 2021

**BID/PROPOSAL#** 22-042

**AGENDA ITEM TITLE:** Traffic Signs

**PREPARED BY** Kathryn Neumann for Michael J. Brown, Director of Public Works

**VENDOR NAME:** Vulcan Signs

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

The function of signs is to provide regulations, warnings and guidance information for road users. It is a requirement from the Federal Highway Administration that signs in the City are maintained. We are currently upgrading signs in the City to maintain retro reflectivity to promote nighttime traffic safety.

**FINANCIAL IMPLICATIONS:** There is money in the account listed below.

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
202	Major Street Fund	443.201-752.000		\$ 45,000.00
203	Local Street Fund	443.201-752.000		\$ 35,000.00
<b>FY22 GRAND TOTAL</b>				<b>\$80,000.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 210004432

**ACCOUNTING APPROVAL:** Kirstie Troup  
Kirstie Troup | Jul 19 2021 14:22 EDT **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☒  
(If yes, please indicate how many years for the contract) \_\_\_\_\_ YEARS

**OTHER IMPLICATIONS (i.e., collective bargaining):**

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:** Michael J. Brown  
Michael J. Brown | Jul 19 2021 14:38 EDT  
Michael J. Brown, Director of Public Works





SEALED PROPOSALS RECEIVED IN THE DIVISION OF PURCHASES & SUPPLIES  
**For Traffic Signs – (3) Years**  
BID# 22000042

Approximate Annual Quantities – Not Guaranteed  
Furnish as requested for the period 7/1/21 – 6/30/24

**Bidder# 1:** Lightle Enterprises of Ohio, LLC  
Frankfort, OH

	Year 1 Ext. Cost	Year 2 Ext. Cost	Year 3 Ext. Cost
<b>Grand Totals</b>	<b>173,867.73</b>	<b>182,439.38</b>	<b>189,067.11</b>

**Bidder# 2:** Vulcan, Inc.  
Foley, AL

	Year 1 Ext. Cost	Year 2 Ext. Cost	Year 3 Ext. Cost
<b>Grand Totals</b>	<b>130,305.27</b>	<b>143,249.58</b>	<b>156,548.02</b>

**\*Calculations were done by the City of Flint Purchasing Department\***

\*10% increase is subject to the market as we may not need an increase at that time.

**A SPECIAL NOTE FROM THE PURCHASING DIVISION**

*Bid results posted are before evaluation team review and award recommendation.*



RESOLUTION NO.: 210414

PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

PROPOSAL#

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO SF MOBILE-VISION FOR POLICE CAMERAS FOR POLICE CRUISERS**

WHEREAS, The City of Flint Police Department is requesting the approval to purchase seventeen (17) cameras from SF Mobile-Vision, 400 Commons Way, Rockaway NJ, 07866, to be added to the police cruisers for citizen and police officer protection.

WHEREAS, The Police Department has previously purchased the same cameras in the past from L-3 Communication Mobile-Vision and would like to continue using the same cameras for compatibility purposes and any future maintenance that may be required. (The majority of this purchase will be acquired using the Police Vehicle Technology Grant PCSM-PVT21)

Account Number	Account Name	Amount
296-315.705-977.000	Equipment (Grant PCSM-PVT21)	\$94,080.00
101-305.203-977.000	Equipment	\$7,765.00
	<b>FY22 GRAND TOTAL</b>	<b>\$101,845.00</b>

IT IS RESOLVED, That the Proper City Officials may purchase seventeen police cameras from SF Mobile-Vision to be installed in the Flint police cruisers, not to exceed the cost of \$101,845.00 for FY22 (07/01/21-06/30/22).

APPROVED AS TO FORM:

Angela Wheeler  
Angela Wheeler (Aug 31, 2021 15:34 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

Robert J. F. Widigan

Robert Widigan, Interim Chief Financial Officer

FOR THE CITY OF FLINT:

CLYDE D EDWARDS  
CLYDE D EDWARDS (Aug 31, 2021 16:38 EDT)

Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

Kate Fields  
Kate Fields, City Council President

APPROVED AS TO PURCHASING:

Lauren Rowley

Lauren Rowley, Purchasing Manager



## CITY OF FLINT

### STAFF REVIEW FORM

**TODAY'S DATE:** 08/02/2022

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** Camera's for cruisers

**PREPARED BY:** Rick Johnson, Police Department

**VENDOR NAME:** SF Mobile-Vision

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

Flint Police Department is requesting for approval for Purchasing to cut a Purchase Order to acquire 17 camera's for the Flint Police Cruisers. These cameras are for the protection of our officers as well as the citizen. The Police Department had purchased these same cameras in the past from this vendor but known then as L-3 Communication Mobile-Vision. The police department would like to stay with this camera and vendor as they are compatible with the current camera system and have one vendor for any maintenance that may be needed in the future.

**FINANCIAL IMPLICATIONS:** None

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
Police	Equipment	296-315-705-977.000	PCSM-PVT21	\$94,080.00
Police	:Equipment	101-305.203-977.000	N/A	\$7,765.00
<b>FY22 GRAND TOTAL</b>				<b>\$101,845.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 220004852

**ACCOUNTING APPROVAL:** Rick Johnson  
Rick Johnson (Aug 10, 2021 15:21 EDT) **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☒

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:** Terence Green  
Terence Green (Aug 11, 2021 10:39 EDT)  
\_\_\_\_\_  
Terence Green, Chief of Police



COBAN Technologies, Inc.  
SF Mobile-Vision, Inc.  
11375 W. Sam Houston Pkwy S., Suite 800  
Houston, Texas 77031-2348  
United States

Ship To  
Rick Johnson  
Flint Police Department (Flint, MI)  
210 East 5th Street  
Flint, Michigan 48502  
United States  
(810) 237-6867  
rjohnson@cityofflint.com

Quote:

Q-18108-1  
Budgetary

Date:

7/26/2021, 9:38 AM

Expires On:

9/24/2021

Phone: (281) 925-0488

Fax: (281) 925-0535

Email: SFLE-Sales@safefleet.net

Bill To

Flint Police Department (Flint, MI)

210 East 5th Street

Flint, Michigan 48502

United States

SALESPERSON	EXT	EMAIL	DELIVERY METHOD	PAYMENT METHOD
Michael Ciesliga	x	mike.ciesliga@safefleet.net		Net 30

H1 In Car Videos

The Digital Evidence Software will require an update to version 4.4.2 or greater for H1 In-Car Video System support.

In-Car Video System Installation is not included in this Quote.

LINE NO.	PART #	DESCRIPTION	UNIT PRICE	QTY	EXTENDED
QL-0106349	FOCUS-51-00	FOCUS H1 IN-CAR SYSTEM - PACKAGE 2 2 CAMERAS AND WIRELESS MICROPHONE Features: • 4.3" touchscreen monitor • GPS • Crash Sensor • Smart Power Module (SPM) w/ UPS • 16 GB internal Solid State OS drive • 128 GB internal Solid State Fail-Safe drive • 64 GB removable Thumb Drive • Internal 802.11 A/G/N/AC wireless card • Backseat wide angle IR camera with built in covert microphone • Front facing HD low profile color camera • Wireless microphone & receiver • Three year limited hardware warranty	USD 5,250.00	17	USD 89,250.00
QL-0106351	MZZ-01	MOUNTING For secure mounting within the vehicle	USD 100.00	17	USD 1,700.00
QL-0106352	SCOPT-27	TWO DUAL BAND ANTENNAS (802.11 A/G/N/AC) For wireless upload to Access Point	USD 205.00	17	USD 3,485.00
QL-0106353	SCAA-016	FOCUS H1 SUPPORT KIT	USD 125.00	1	USD 125.00
QL-0106354	FOCUS-04-06	FOCUS H1 64 GB SECURED PEN DRIVE	USD 250.00	1	USD 250.00
QL-0106355	MVD-EMA-SWR	DES / DEV / DEP 1-YEAR SOFTWARE EMA FOR IN-CAR VIDEO SYSTEM - Per device	USD 150.00	17	USD 2,550.00
QL-0106358	LSSWRPROSVR	DIGITAL EVIDENCE PRO SOFTWARE	USD 0.00	17	USD 0.00
QL-0106356	LFEE-050	SHIPPING - IN CAR VIDEO SYSTEMS	USD 50.00	17	USD 850.00

LINE NO.	PART #	DESCRIPTION	UNIT PRICE	QTY	EXTENDED
QL-0106357	LSET-17	BACKOFFICE SETUP PACKAGE A Includes: • 2 Days remote and on-site project deployment • Back office configuration and setup • Admin and User Training  Project Deployment, Single Platform On-site / Remote Project Implementation	USD 3,095.00	1	USD 3,095.00
QL-0106350	LTRN-04	3 HOUR REMOTE WEB TRAINING	USD 540.00	1	USD 540.00
H1 In Car Videos TOTAL:					USD 101,845.00
					<b>TOTAL: USD 101,845.00</b>

### **Terms & Conditions**

Applicable sales taxes are not reflected on this proposal, and will be included on the invoice. In the event Sales Tax is requested to be listed on the proposal, it will be the responsibility of the Agency to provide the current Tax rate and amount. Any purchases that are exempt from Sales Tax must be accompanied by a tax exemption and/ or re-seller certificate.

This quote is presented to the customer under the condition that it remains a valid quote for only 60 days after the stated Quote Date, after which the quote becomes null and void.

**This quote is for estimation purposes and is not a guarantee of cost for services. Quote is based on current information from client about the project requirements. Actual cost may change once project elements are finalized or negotiated. Client will be notified of any changes in cost prior to them being incurred.**

Please email or fax a signed copy of this quotation and other referenced documents to SFLE-Sales@safefleet.net or (281) 925-0535. Safe Fleet Law Enforcement order requests above \$2,500.00 require an Agency issued Purchase Order prior to processing.

COBAN Technologies, Inc.  
11375 W. Sam Houston Pkwy S., Suite 800  
Houston, Texas 77031-2348

IN WITNESS WHEREOF, the Parties have caused this Agreement to Purchase to be executed and delivered by their respective authorized representatives whose signatures appear below.

COBAN Technologies, Inc.

Flint Police Department (Flint, MI)

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

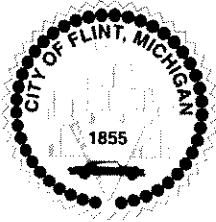
Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_



RESOLUTION NO.: 210415

PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

PROPOSAL# 20000516

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO LASERCOM, LLC FOR PRINTING, SORTING, MAILING OF WATER BILLS/SHUT OFF  
NOTICES AND PROPERTY TAX BILLS**

On October 14, 2019, per Resolution 190416, City Council authorized the Proper City Officials to enter into a three-year contract with Lasercom, LLC, 2230 Elliot, Troy, MI for the printing, sorting, and mailing of water bills/shut off notices and property tax bills in the yearly amount of \$149,090.00.

WHEREAS, The Proper City Officials are requesting to proceed into the third year of the three-year contract with Lasercom LLC for the printing, sorting, mailing of water bills/shut off notices, property tax in the yearly amount of \$149,090.00, which includes up to \$110,000.00 for the unknown cost of postage as needed. The city cannot determine on a yearly basis how much postage will be spent, it depends on the number of mailings that are sent out and if there are any unexpected additional mailings. The (budgeted) amounts are as follows:

Account Number	Account Name	Amount
101-253.202-900.000	Water Collection Printing & Publishing	\$15,765.00
101-253.203-900.000	Sewer Collection Printing & Publishing	\$15,765.00
101-253.200-900.000	Treasury Operation Printing & Publication	\$7,560.00
	<b>FY 22 Total for Printing, Sorting &amp; Mailing</b>	<b>\$39,090.00</b>
101-253.200-902.000	Treasury Operation- Postage	as needed
101-253.202-902.000	Water Collection- Postage	as needed
101-253.203-902.000	Sewer Collection- Postage	as needed
	<b>FY 22 Total for Postage</b>	<b>\$110,000.00</b>
	<b>FY22 TOTAL</b>	<b>\$149,090.00</b>

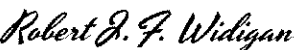
IT IS RESOLVED, that the Proper City Officials are hereby authorized to enter into the third and final year of the contract with Lasercom, LLC for the printing, sorting and mailing of water bills/shut off notices and property taxes in the FY22 yearly amount of \$39,090.00 including the cost of postage not to exceed \$110,000.00 for a total amount, not to exceed \$149,090.00 for FY22 (07/01/21-06/30/22)

**APPROVED AS TO FORM:**

  
Angela Wheeler (Aug 31, 2021 15:35 EDT)

**Angela Wheeler, Chief Legal Officer**

**APPROVED AS TO FINANCE:**



**Robert Widigan, Interim Chief Financial Officer**

**FOR THE CITY OF FLINT:**

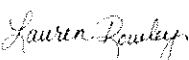
  
CLYDE D. EDWARDS (Aug 31, 2021 16:36 EDT)

**Clyde Edwards, City Administrator**

**APPROVED BY CITY COUNCIL:**

  
**Kate Fields, City Council President**

**APPROVED AS TO PURCHASING:**



**Lauren Rowley, Purchasing Manager**



# CITY OF FLINT

## RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 7/9/21

**BID/PROPOSAL#** 20-516

**AGENDA ITEM TITLE:** LASERCOM

**PREPARED BY** PATRICE ELLISON, ADMIN CLERK, FINANCE/CUSTOMER SERVICE CENTER  
(Please type name and Department)

**VENDOR NAME:** LASERCOM

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

THE PURPOSE OF THIS RESOLUTION IS TO GET APPROVAL FOR LASERCOM, LLC TO PROVIDE LABOR AND EQUIPMENT FOR MONTHLY PRINTING, SORTING AND MAILING OF WATER BILLS/SHUTOFF NOTICES AND PROPERTY TAX BILLS FOR FISCAL YEAR 2022, POSTAGE AS NEEDED.

**FINANCIAL IMPLICATIONS:** \$149,090.00

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
FIN/ CSC	Water Collection Printing & Publishing	101-253.202-900.000		15,765.00
	Sewer Collection Printing & Publishing	101-253.203-900.000		15,765.00
	Water Collection - Postage	101-253.202-902.000		As needed
	Sewer Collection - Postage	101-253.203-902.000		As needed
	Treasury Operation – Printing & Publication	101-253.200-900.000		7,560.00
	Treasury Operation - Postage	101-253.200.902.000		As needed
	<b>FY 2022</b>			<b>\$149,090.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 210004152

**ACCOUNTING APPROVAL:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☒ NO ☐  
(If yes, please indicate how many years for the contract) 1 YEAR



## CITY OF FLINT

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**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: *(This will depend on the term of the bid proposal)***

**BUDGET YEAR 1** \$149,090.00

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:** Amanda Trujillo  
(AMANDA TRUJILLO, CITY OF FLINT TREASURER)



(Proposal #20000516)

190416  
RESOLUTION NO. \_\_\_\_\_

PRESENTED: 10-9-19

ADOPTED: 10-14-2019

BY THE CITY ADMINISTRATOR:

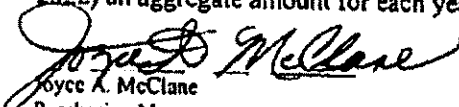
**RESOLUTION TO LASERCOM, LLC FOR PRINTING, SORTING, MAILING OF WATER  
BILLS/SHUT OFF NOTICES AND PROPERTY TAX BILLS**

**RESOLUTION**

The Department of Purchases & Supplies has solicited proposals for Printing, Sorting, Mailing of Water Bills/Shut Off Notices and Property Tax Bills; and

Lasercom LLC, 2230 Elliot, Troy, Michigan was the responsive bidder from six solicitations for said requirements. This is to provide labor and equipment for sorting mailing of water bills shut off notices, property tax bills and postage as needed for three (3) fiscal years (2020 thru 2022) Funding for said services will come from the following accounts: 101-253.202-900.000 (\$15,765.00), 101-253.203-900.000 (\$15,765.00); 101-253.202-729.000 (\$50,000.00); 101-253.203-729.000 (\$50,000.00); 101-253.200-900.000 (\$10,000.00); 101-253.200-729.000 (\$7,560.00); and


IT IS RESOLVED, that the Proper City Officials, upon City Councils approval, are hereby authorized to issue a purchase order and enter into a contract with Lasercom LLC for printing, sorting, mailing of water bills shut off notices, property tax and postage as needed for a three (3) year (2020 thru 2022) an aggregate amount for each year of \$149,090.00.

  
Joyce A. McClane  
Purchasing Manager

  
Tamar A. Lewis  
Deputy Finance Director

APPROVED AS TO FORM:

  
Angela Wheeler  
Chief Legal Officer

  
Steve Branch, City Administrator

  
Herbert J. Winfrey, Council President

FY19 20 JAN



RESOLUTION NO.: 210416

PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

**Bid #s**

P21-541, P21-551, P21-570

**BY THE CITY ADMINISTRATOR:**

**RESOLUTION TO MCNAUGHTON-MCKAY ELECTRIC FOR ELECTRICAL AND LIGHTING SUPPLIES AND PARTS**

WHEREAS, the Finance Department received bids for Electrical Supplies on August 11, 2020 (P21-551) and for Allen Bradley PLC modules on June 11, 2020 (P21-541) and Allen Bradley agreement on September 9, 2020 (P21-570). McNaughton-McKay Electric was the sole responsive bidder for both of the three-year bids. Various city departments including Water Plant, Waste Pollution Control, Water Service Center, Traffic Engineering, Facilities Maintenance, and Fire Department require electrical and lighting supplies and parts including Allen-Bradley automation equipment PLC Modules. Without adequate parts, critical plant processes would not be operable resulting in permit violations and increased operational and maintenance costs. The departments listed above recommend authorization to approve purchase orders to McNaughton-McKay Electric for FY2022 in an amount of \$240,100.

Account Number	Account Name	Amount
591-545.201-752.000	Water Plant Maintenance	\$18,000.00
590-550.200-775.000	Repair & Maint Supplies	\$17,000.00
590-550.202-775.000	Repair & Maint Supplies	\$67,500.00
590-550.202-930.000	WPC- Maintenance Expense	\$35,500.00
590-550.100-814.600	WPC Operations	\$10,000.00
591-540.202-752.000	WSC- Water Distribution Mains	\$8,300.00
590-540.208-752.000	WSC-Sewer Maint./Construction	\$8,300.00
202-443.201-752.000	Traffic Engineering Service Maintenance	\$45,000.00
101-753.200-752.000	Facilities Maintenance-Municipal Center	\$30,000.00
101-338.201-752.000	Firefighting Division- Fire Station OverH	\$500.00
<b>Total</b>		<b>\$240,100.00</b>

IT IS RESOLVED, that the appropriate City Officials are authorized to do all things necessary to enter into the second year of the agreements with McNaughton-McKay Electric to provide electrical and lighting supplies and parts including Allen Bradley Modules for FY22 (7/1/2021-6/30/2022), for the amount not to exceed \$240,100.00.

**APPROVED AS TO FORM:**

Angela Wheeler  
Angela Wheeler (Aug 31, 2021 15:50 EDT)

**Angela Wheeler, Chief Legal Officer**

**APPROVED AS TO FINANCE:**

Robert J. F. Widigan

**Robert Widigan, Interim Chief Financial Officer**

**FOR THE CITY OF FLINT:**

CLYDE D. EDWARDS  
CLYDE D EDWARDS (Aug 31, 2021 15:59 EDT)

**Clyde Edwards, City Administrator**

**APPROVED BY CITY COUNCIL:**

Kate Fields  
**Kate Fields, City Council President**

**APPROVED AS TO PURCHASING:**

Lauren Rowley

**Lauren Rowley, Purchasing Manager**



# CITY OF FLINT

## RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** August 16, 2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** Allen Bradley Drives

**PREPARED BY:** Melanie Poisson for the Water Plant

**VENDOR NAME:** MCNAUGHTON MCKAY

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

The Water Plant requires Allen Bradley Drives to maintain systems throughout the facility and satellite properties. This is a sole-source provider having originally installed and maintained these systems. See Tim Donlan with any questions.

Please issue a purchase order for \$15,000 for fiscal year FY2022: using funds from account 591-545.201-752.000.

**FINANCIAL IMPLICATIONS:**

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
DPW-WTP	Supplies FY22	591-545.201-752.000		\$15,000
FY21 GRAND TOTAL				\$ 15,000

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 210004190

**ACCOUNTING APPROVAL:** Yolanda Gray **Date:** 8-26-21  
(Yolanda Gray, DPW Accounting Supervisor)

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☒

**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH**

**BUDGET YEAR:** (This will depend on the term of the bid proposal)

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:** Scott Dungee **Date:** 8/27/2021  
(Scott Dungee, Water Plant Supervisor)

Melanie Poisson



# CITY OF FLINT

## RESOLUTION STAFF REVIEW FORM

TODAY'S DATE: August 27, 2021

BID/PROPOSAL#

AGENDA ITEM TITLE: Square "D" Parts

PREPARED BY: Melanie Poisson

VENDOR NAME: MCNAUGHTON MCKAY

### BACKGROUND/SUMMARY OF PROPOSED ACTION:

The Water Plant would like to hire McNaughton McKay to supply Square "D" parts to maintain systems throughout the facility and satellite properties.

Please issue a purchase order for \$1,000 for each of these fiscal year: FY2021, using funds from account 591-545.201-752.000.

### FINANCIAL IMPLICATIONS:

BUDGETED EXPENDITURE? YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
DPW-WTP	Supplies FY22	591-545.201-752.000		\$1,000
FY22 GRAND TOTAL				\$ 1,000

PRE-ENCUMBERED? YES ☒ NO ☐ REQUISITION NO: 21004191

ACCOUNTING APPROVAL: Yolanda Gray Date: 8-27-21  
(Yolanda Gray, DPW/Accounting Supervisor)

WILL YOUR DEPARTMENT NEED A CONTRACT? YES ☐ NO ☒

WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH

BUDGET YEAR: (This will depend on the term of the bid proposal)

OTHER IMPLICATIONS (i.e., collective bargaining): None

STAFF RECOMMENDATION: (PLEASE SELECT): ☒ APPROVED ☐ NOT APPROVED

DEPARTMENT HEAD SIGNATURE: Scott Dungee Date: 8/27/2021  
(Scott Dungee, Water Plant Supervisor)

Melanie Poisson



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 07/26/2021

**BID/PROPOSAL#** 21000570

**AGENDA ITEM TITLE:** SQD Parts

**PREPARED BY** John Florshinger  
Utilities Maintenance & SCADA Supervisor

**VENDOR NAME:** McNaughton-McKay Electric Co.

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

WPC relies on SQD brand electrical and automation devices to run critical plant processes. Without adequate parts, these plant processes would not be operable. This would cause NPDES Permit violations, and result in increased operational and maintenance costs, plus discharge of excess pollutants to the Flint River.

I recommend that the sole qualified bidder, McNaughton-McKay Electric Co., be awarded the three (3) year bid in the amount of \$20,000.00 for each of the next three (3) fiscal years, FY2021, FY2022, and pending adoption FY2023 for a three-year total of \$60,000.00, for SQD parts.

Please issue a purchase order for the FY2022 budgeted amount of \$20,000.00, using funds from account 590-550.202-775.000.

**FINANCIAL IMPLICATIONS:** None

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
DPW-WPC	Repairs/Maintenance	590-550.202-775.000		\$20,000.00
		<b>FY22 GRAND TOTAL</b>		<b>\$20,000.00</b>
		<b>THREE YEAR TOTAL</b>		<b>\$60,000.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 210004263

**ACCOUNTING APPROVAL:** *J. Florshinger* **Date:** 07/26/2021



## CITY OF FLINT

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☒  
(If yes, please indicate how many years for the contract) YEARS

**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: (This will depend on the term of the bid proposal)**

**BUDGET YEAR 1** \$20,000.00

**BUDGET YEAR 2** \$20,000.00

**BUDGET YEAR 3** \$20,000.00

**OTHER IMPLICATIONS (i.e., collective bargaining):** None.

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**

  
(Jeanette Best, WPC Manager)



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 07/26/2021

**BID/PROPOSAL#** 21000541

**AGENDA ITEM TITLE:** Allenn-Bradley Modules and Parts

**PREPARED BY** John Florshinger

Utilities Maintenance & SCADA Supervisor

**VENDOR NAME:** McNaughton-McKay Electric

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

WPC relies on Allen Bradley automation equipment to run and monitor critical plant processes such as filter, pump station control, load out facilities, grit removal, and plant historical data logging. Without adequate parts, these critical plant processes would not be operable resulting in NPDES Permit violations and increased operational and maintenance costs.

I recommend that the sole qualified bidder, McNaughton-McKay Electric., be awarded the three (3) year bid in the amount of \$86,000.00 for each of the next three (3) fiscal years, FY2021, FY2022, and pending adoption of FY2023, a three-year total of \$258,000.00, for Allen-Bradley modules and parts.

Please issue a purchase order for the FY2022 budgeted amount of \$86,000.00, using funds from account 590-550.202-775.000, 590-550.202-9300.000 and 590-550.100-814.600.

**FINANCIAL IMPLICATIONS:** None

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
DPW-WPC	Repair/Maint Supplies	590-550.202-775.000		40,500.00
DPW-WPC	Repairs/Maintenance	590-550.202-930.000		35,500.00
DPW-WPC	Computer Software	590-550.100-814.600		10,000.00
		<b>FY22 GRAND TOTAL</b>		<b>\$86,000.00</b>
		<b>THREE YEAR TOTAL</b>		<b>\$258,000.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 210004247

**ACCOUNTING APPROVAL:**

*J. Florshinger*

**Date:** 07/26/2021



## CITY OF FLINT

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☒  
(If yes, please indicate how many years for the contract) YEARS

**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: (This will depend on the term of the bid proposal)**

**BUDGET YEAR 1** \$86,000.00

**BUDGET YEAR 2** \$86,000.00

**BUDGET YEAR 3** \$86,000.00

**OTHER IMPLICATIONS (i.e., collective bargaining):** None.

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**

Jeanette Best  
(Jeanette Best, WPC Manager)





# CITY OF FLINT

## RESOLUTION STAFF REVIEW FORM

TODAY'S DATE: August 21, 2020 (Req Updated in BSA 9/29/20) jam

BID/PROPOSAL# 21000551

AGENDA ITEM TITLE: Electrical parts

PREPARED BY Kathryn Neumann for Robert Bincsik, Director of Public Works

VENDOR NAME: McNaughton McKay Electric

### BACKGROUND/SUMMARY OF PROPOSED ACTION:

The Traffic Engineering Division, Maintenance Division and Water Service Center are requesting a purchase order for electrical parts on an as needed basis for a three year period.

FINANCIAL IMPLICATIONS: There is money in the accounts listed below.

BUDGETED EXPENDITURE? YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
202	Major Street Fund	443.201-726,000		\$ 45,000.00
FY21 GRAND TOTAL				\$45,000.00

PRE-ENCUMBERED? YES ☒ NO ☐ REQUISITION NO: 20003218

ACCOUNTING APPROVAL: Kirstie Troup Date: 8/21/20

WILL YOUR DEPARTMENT NEED A CONTRACT? YES ☐ NO ☒  
(If yes, please indicate how many years for the contract) YEARS

OTHER IMPLICATIONS (i.e., collective bargaining):

STAFF RECOMMENDATION: (PLEASE SELECT): ☒ APPROVED ☐ NOT APPROVED

DEPARTMENT HEAD SIGNATURE: Robert Bincsik  
(Robert Bincsik, Director of Public Works)

## RESOLUTION STAFF REVIEW

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**DATE:** 6-11-20

**Agenda Item Title:** Materials for Lighting Upgrades

**Prepared By:** Cheri Priest, Water Service Center

**Background/Summary of Proposed Action:** The City of Flint Water Service Center requests additional monies be added to our current McNaughton-McKay purchase order for the purchase electrical supplies. This is the next phase in the electrical upgrades already done at this facility. The current phase will be upgrading and/or adding additional lighting to the outside of the building and parking lots.

**Financial Implications:** Adequate funding has been allocated for this purchase.

**Budgeted Expenditure?** Yes ☒ No ☐ Please explain if no:

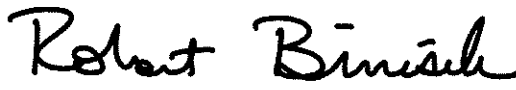
**Account No.:** 590-540-208-726-000 - \$7,050.00  
591-540-202-726-000 - \$7,050.00

**Pre-encumbered?** Yes ☒ No ☐ Requisition # 200003355

**Other Implications (i.e., collective bargaining):** None

**Staff Recommendation:** Recommend Approval

**Staff Person:**



Director of Public Works

CITY OF FLINT



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 8/21/2020

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** McNaughton McKay – Lighting and Electrical

**PREPARED BY** D. Dunlap – Fire Department

**VENDOR NAME:** McNaughton McKay Electric Co,

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

The Fire Department is seeking approval for a purchase order in the amount of \$500.00 for various lighting and electrical supplies as needed/requested for the period 7/01/2020 – 6/30/2021.

**FINANCIAL IMPLICATIONS:** None

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
Fire		101-338.201-726.000		\$500.00

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 200003351

**ACCOUNTING APPROVAL:** \_\_\_\_\_ **Date:** \_\_\_\_\_



## CITY OF FLINT

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**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☐ NO ☐  
(If yes, please indicate how many years for the contract) YEARS

**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: (This will depend on the term of the bid proposal)**

**BUDGET YEAR 1** \$500.00

**BUDGET YEAR 2** \$500.00

**BUDGET YEAR 3** \$500.00

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**

*Raymond Barton, Fire Chief*

# CITY OF FLINT



PROPOSAL #21090541

RESOLUTION NO: **200347**

PRESENTED: **AUG 24 20**

ADOPTED: **AUG 24 2020**

BY THE CITY ADMINISTRATOR:

## RESOLUTION TO MCNAUGHTON-MCKAY ELECTRIC FOR ALLEN BRADLEY MODULES AND PARTS

The Division of Purchases & Supplies solicited proposals for Allen Bradley Modules and Parts by the Department of Public Works.

McNaughton-McKay Electric, 1011 E. Fifth Ave., Flint, Michigan 48503, was the sole responsive bidder for said requirements.

Funding for said services will come from the following accounts for FY21 (07/01/20 - 06/30/21):

Account Number	Account Name	Amount
590-550.202-775.000	Repair Maint Supplies	\$ 40,500.00
590-550.202-930.000	Repair Maint	\$ 35,500.00
590-550.100-814.600	Computer Software	\$ 10,000.00
591-545.201-726.000	Maint Supplies	\$ 40,000.00
<b>FY21 (07/01/20 - 06/30/21) Total</b>		<b>\$126,000.00</b>

IT IS RESOLVED, that the Finance Department - Division of Purchases and Supplies, upon City Council's approval, is hereby authorized to issue a purchase order to McNaughton-McKay Electric for Allen-Bradley Modules and Parts for FY21 (07/01/20 - 06/30/21) budgeted in the amount not to exceed \$126,000.00, pending FY 22 adopted budget amount \$126,000.00, and pending FY23 adopted budget amount \$126,000.00.

APPROVED AS TO FORM:

*Angela Wheeler*  
Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

*Amanda Trujillo*  
Amanda Trujillo, Acting Chief Financial Officer

FOR THE CITY OF FLINT:

*Clyde Edwards*  
Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

*Monica Galloway*  
Monica Galloway, City Council President

APPROVED AS TO PURCHASING:

*Joyce A. McClane*  
Joyce A. McClane  
Purchasing Manager

## CITY OF FLINT



PROPOSAL #21000551

RESOLUTION NO: 200413PRESENTED: OCT 21 2020ADOPTED: OCT 21 2020

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO MCNAUGHTON-MCKAY ELECTRIC FOR ELECTRICAL SUPPLIES**

On August 11, 2020, the Finance Department - Division of Purchases & Supplies received bids for Electrical Supplies as requested by the Department of Public Works.

McNaughton McKay Electric, 1011 E. Fifth Ave., Flint, Michigan 48503 was the sole responsive bidder for said requirements. This bid is for three (3) years. For the month of July 2020, purchase orders were issued in the amount of \$47,000.00.

Funding for said services are available in the following account for FY21 (07/01/20 - 06/30/21):

Account Number	Account Name	Amount
202-443.201-726.000	Miscellaneous Electrical Parts	\$45,000.00
590-550.202-775.000	Square D PLC Module	\$20,000.00
591-545.201-726.000	Square D Parts	\$ 3,000.00
591-545.201-726.000	Allen Bradley Drives/PLC	\$25,000.00
FY21 (07/01/20 - 06/30/21) Total		\$93,000.00

IT IS RESOLVED, that the Proper City Officials are hereby authorized to issue a purchase order to McNaughton-McKay Electric for Electrical Supplies for FY21 (07/01/20 - 06/30/21) in the amount not to exceed \$93,000.00, and the aggregate amount totaling \$140,000.00.

APPROVED AS TO FORM:

  
Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

  
Amanda Trujillo, Acting Chief Financial Officer

FOR THE CITY OF FLINT:

  
Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

  
Monica Galloway, City Council President

APPROVED AS TO PURCHASING:

  
Joyce A. McClane, Purchasing Manager



SEALED PROPOSALS RECEIVED IN THE DIVISION OF PURCHASES & SUPPLIES  
**For ALLEN BRADLEY – 3 YR AGREEMENT**  
 PROPOSAL #21000570

Approximate Annual Quantities – Not Guaranteed  
 Furnish as requested for the period 7/1/20 – 6/30/23

<i>Vendor</i>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>TOTAL</b>
<b>McNaughton-McKay Electric Co., 1011 E. 5<sup>th</sup> Avenue Flint, MI 48503</b>	167,251.19	167,251.19	167,251.19	501,753.5

**Allen-Bradley VFD bid Worksheet:**

<u><b>LABOR RATES – Estimated hours</b></u>		<u><i>Straight Time</i></u>	<u><i>Overtime</i></u>
<b>ELECTRONIC TECH (Bench)</b>	50 hrs	11,700	17,550/50 HRS
<b>FIELD ENGINEER (On site)</b>	50 hrs	11,700	17,550/50 HRS

% mark-up over OEM pricing for Parts 10%





SEALED PROPOSALS RECEIVED IN THE DIVISION OF PURCHASES & SUPPLIES  
For (3) YRS – SUPPLY OF ELECTRICAL PARTS  
PROPOSAL #21000551

Approximate Annual Quantities – Not Guaranteed  
Furnish as requested for the period 7/1/20 – 6/30/23

<i>Vendor</i>	<i>1<sup>st</sup> Year</i>	<i>2<sup>nd</sup> Year</i>	<i>3<sup>rd</sup> Year</i>
McNaughton-McKay Electric Company, Flint, MI	\$12,094.21	\$12,094.21	\$12,094.21

RESOLUTION NO.: 210417PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

PROPOSAL# 2100540

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO WILLIAM E. WALTER FOR INDUSTRIAL HVAC SERVICES**

The Division of Purchases and Supplies solicited proposals for Industrial HVAC services as requested by the Department of Public Works for three years. William E. Walter, 1917 Howard Ave. Flint, was the responsive bidder out of two solicitations for said requirements.


On August 24, 2020, Flint City council adopted resolution #200346 to enter into the first year of this three year contract, not to exceed \$195,500.00 for FY21. On October 21, 2020, Flint City Council adopted resolution #200412 to accept the Change order #1 for additional HVAC expenses to the Water Plant, for a cost not to exceed \$29,000.00, bringing the aggregate total for FY21 to \$224,500.00. for the HVAC services contract.

WHEREAS, The Department of Public Works is requesting to enter into year two of the three year contract for William E. Walter HVAC services, at the same aggregate total of last year's contract, of \$224,500.00, which also recognizes Change order #1 to also be added to the total cost for FY2022.

Account Number	Account Name	Amount
101-753.200-930.000	Repair Maintenance	\$100,000.00
590-540.100-801.000	Professional Services	\$7,500.00
591-540.100-801.000	Professional Services	\$7,500.00
583-735.204-930.000	Repairs and Maintenance	\$4,000.00
590-550.200-775.000	Repair/Maint. Supplies	\$5,000.00
590-550.200-930.000	Repair/Maint.	\$12,500.00
590-550.202-775.000	Repair/Maint Supplies	\$20,000.00
590-550.202-930.000	Repair/Maint.	\$12,500.00
591-545.201-752.000	Supplies	\$15,500.00
591-545.201-930.000	Repairs and Maintenance	\$32,000.00
591-545.201-801.000	Professional Services	\$8,000.00
FY2022 TOTAL		\$224,500.00

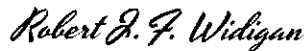
IT IS RESOLVED, that the proper city officials, upon City Council's approval, are hereby authorized to enter into year two of the three year contract with William E. Walter for Industrial HVAC services for FY22 (07/01/21- 06/30/22) (budgeted) aggregate amount not to exceed \$224,500.00.

APPROVED AS TO FORM:

  
Angela Wheeler (Aug 31, 2021 15:48 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:



Robert Widigan, Interim Chief Financial Officer

FOR THE CITY OF FLINT:

  
CLYDE D. EDWARDS (Aug 31, 2021 16:01 EDT)

Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

Kate Fields, City Council President

APPROVED AS TO PURCHASING:



Lauren Rowley, Purchasing Manager

# CITY OF FLINT



PROPOSAL #2101349

RESOLUTION NO: **200346**

PRESENTED: **AUG 24 2020**

ADOPTED: **AUG 24 2020**

BY THE CITY ADMINISTRATOR:

## RESOLUTION TO WILLIAM E. WALTER FOR INDUSTRIAL HVAC SERVICES

The Division of Purchases & Supplies solicited proposals for Industrial HVAC Services as requested by the Department of Public Works for three years

William E. Walter, 1917 Howard Ave., Flint, MI 48503, was the responsive bidder from out of two solicitations for said requirements

Funding for said services will come from the following accounts for FY21 (07/01/20 - 06/30/21):

Account Number	Account Name	Amount
590-550.200-775.000	Repair Maint Supplies	\$ 5,000.00
590-550.200-930.000	Repair Maint	\$ 12,500.00
590-550.202-775.000	Repair Maint Supplies	\$ 20,000.00
590-550.202-930.000	Repair Maint	\$ 12,500.00
101-753.200-930.000	Repair Maintenance	\$100,000.00
591-545.201-726.000	Supplies	\$ 6,500.00
591-545.201-930.000	Repairs & Maintenance	\$ 16,000.00
591-545.201-801.000	Professional Services	\$ 4,000.00
583-735.204-930.000	Repairs & Maintenance	\$ 4,000.00
590-540.100-801.000	Professional Services	\$ 7,500.00
591-540.100-801.000	Professional Services	\$ 7,500.00
FY21 (07/01/20 - 06/30/21) Total		\$195,500.00

IT IS RESOLVED, that the proper city officials, upon City Council's approval, are hereby authorized to enter into a contract for William E. Walter for Industrial HVAC Services for FY21 (7/1/20 - 6/30/21) (budgeted) amount not to exceed \$195,500.00, FY22 budget amount \$195,500.00, and FY23 budget amount \$195,500.00

APPROVED AS TO FORM:

*Angela Wheeler*  
Angela Wheeler, Chief Legal Officer

FOR THE CITY OF FLINT:

*Clyde Edwards*  
Clyde Edwards, City Administrator

APPROVED AS TO FINANCE:

*Amanda Trujillo*  
Amanda Trujillo, Acting Chief Financial Officer

APPROVED BY CITY COUNCIL:

*Monica Galloway*  
Monica Galloway, City Council President

APPROVED AS TO PURCHASING:

*Joyce McClane*  
Joyce McClane  
Purchasing Manager

JAM - 8/18/20

## CITY OF FLINT

200412



PROPOSAL #21000540

RESOLUTION NO: \_\_\_\_\_

PRESENTED: OCT 21 2020ADOPTED: OCT 21 2020

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO WILLIAM E. WALTER FOR INDUSTRIAL HVAC SERVICES**  
**CHANGE ORDER #1**

On August 24, 2020, the Proper City Officials were authorized to enter into a contract with William F. Walter (resolution 200346- \$195,500.00) for Industrial HVAC Services for a three year period as requested by the Department of Public Works; and

The Water Plant had to do a budget amendment adding sufficient funds to their budget account.

Funding for said services are available in the following account for FY21 (07/01/20 06/30/21):

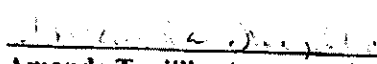
Account Number	Account Name	Amount
591-545.201-726.000	Supplies	\$ 9,000.00
591-545.201-930.000	Repairs & Maintenance	\$16,000.00
591-545.201-801.000	Professional Services	\$ 4,000.00
	<b>FY21 (07/01/20 THRU 06/30/21)</b>	<b>\$29,000.00</b>

IT IS RESOLVED, that the Proper City Officials are to do all things necessary to enter into a change order #1 to the contract to William E. Walter for Industrial HVAC Services amount not to exceed for FY21 (07/01/20 06/30/21) \$29,000.00 for an aggregate total not to exceed \$224,500.00 (FY21)

APPROVED AS TO FORM:

  
 Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

  
 Amanda Trujillo, Acting Chief Financial Officer

FOR THE CITY OF FLINT:

  
 Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

  
 Monica Galloway, City Council President

APPROVED AS TO PURCHASING:

  
 Joyce A. McClane  
 Purchasing Manager



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 07/06/2020

**BID/PROPOSAL#** 21000540

**AGENDA ITEM TITLE:** Industrial HVAC Services

**PREPARED BY** John Florshinger  
Utilities Maintenance & SCADA Supervisor

**VENDOR NAME:** William E. Walter, Inc.

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

WPC uses support services to assist with HVAC system repairs on an as needed basis. This service allows WPC to utilize expertise as required to assist and preform large-scale HVAC repairs and troubleshooting the systems.

I recommend that the sole qualified bidder, William E. Walter, Inc., be awarded the three (3) year bid in the amount of \$50,000.00 for each of the next three (3) fiscal years, FY2021, FY2022, and pending adoption of FY2023, a three-year total of \$150,000.00, for HVAC Support Services.

Please issue a contract for the FY2021 budgeted amount of \$50,000.00, using funds from account 590-550.200-775.000, 590-550.200-930.000, 590-550.202-775.000 and 590-550.202-930.000.

**FINANCIAL IMPLICATIONS:** None

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
DPW-WPC	Repair/Maint Supplies	590-550.200-775.000		\$5,000.00
DPW-WPC	Repairs/Maintenance	590-550.200-930.000		\$12,500.00
DPW-WPC	Repair/Maint Supplies	590-550.202-775.000		\$20,000.00
DPW-WPC	Repairs/Maintenance	590-550.202-930.000		\$12,500.00
		<b>FY20/21 GRAND TOTAL</b>		<b>\$50,000.00</b>
		<b>THREE YEAR TOTAL</b>		<b>\$150,000.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 200002989

**ACCOUNTING APPROVAL:** \_\_\_\_\_ **Date:** \_\_\_\_\_





## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** June 11, 2020

**BID/PROPOSAL#** 21-540

**AGENDA ITEM TITLE:** HVAC services

**PREPARED BY** Kathryn Neumann for Robert Bincsik, Director of Public Works

**VENDOR NAME:** William E Walter

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

Sealed bids were solicited for heating, ventilating and air conditioning services for all city buildings. Facilities Maintenance is responsible for building maintenance at City Hall, the fire stations, the police department and the buildings at 12<sup>th</sup> Street. City buildings have extremely old mechanical systems and require constant attention to keep them in working order.

**FINANCIAL IMPLICATIONS:**

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
101	General Fund	753.200-930.000		\$ 100,000.00
		<b>FY21 GRAND TOTAL</b>		<b>\$100,000.00</b>

**PRE-ENCUMBERED?** YES ☐ NO ☒ **REQUISITION NO:** 20003356

**ACCOUNTING APPROVAL:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☒ NO ☐

(If yes, please indicate how many years for the contract) 3 YEARS

**WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: (This will depend on the term of the bid proposal)**

**BUDGET YEAR 1** \$100,000.00



## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** September 25, 2020

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** RPZ, Boiler and HVAC-Inspections, Repairs, Parts and Supplies

**PREPARED BY:** Melanie Poisson for the Water Plant

**VENDOR NAME:** William E Walter

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

The Water Plant requires inspections, repairs, parts and supplies for the HVAC, boilers and RPZ systems. These are needed to maintain safety and operation standards as outlined in MIOSHA and other governing agencies.

I recommend that the sole qualified bidder, William E. Walter, Inc., be awarded the three (3) year bid in the amount of \$29,000.00 for each of the next three(3) fiscal years, FY2021, FY2022 and pending adoption of FY2023, a three year total of \$120,000.00 for HVAC, Boiler and RPZ support services.

Please issue a contract for the FY2021 budgeted amount of \$29,000.00, using funds from accounts 591-545.201-726.000, 591-545.201-930.000 and 591-545.201-801.000.

**FINANCIAL IMPLICATIONS:**

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
591	Supplies	545.201-726.000		\$9000.00
591	Repairs and Maintenance	545.201-930.000		\$16,000.00
591	Professional Services	545.201-801.000		\$4,000.00
	<b>FY21 TOTAL</b>			<b>\$29,000.00</b>

**PRE-ENCUMBERED?** YES ☐ NO ☒ **REQUISITION NO:** 200003407

Melanie Poisson 7/13/20





SEALED PROPOSALS RECEIVED IN THE DIVISION OF PURCHASES & SUPPLIES  
**For Industrial HVAC Services (3) YRS.**  
 PROPOSAL #21000540

COMPANY NAME	Markup on replacement Parts	10 Devices to test	8 Devices – CDS-1 TESTING
<b>William E. Walter, Inc.</b>	10%	10 each @ \$115.00	8 each @ \$350.00
Flint, Michigan 48503		Total: \$1,150.00	Total: \$2,800.00

*Various rates for regular, overtime and Sunday hourly rates submitted.*

COMPANY NAME	Markup on replacement Parts	10 Devices to test	8 Devices – CDS-1 TESTING
<b>Stuart Mechanical</b>	15%	10 each @ \$130.00	8 each @ \$290.00
Auburn Hills, Michigan 48436		Total: \$1,300.00	Total: \$2,320.00

*Various rates for regular, overtime and Sunday hourly rates was not submitted.*

***Please note that all proposal submittals are currently being reviewed.***



RESOLUTION NO.:

210418

PRESENTED:

SEP - 8 2021

ADOPTED:

RESOLUTION AUTHORIZING PROPER CITY OFFICIALS TO ENTER INTO CHANGE ORDER #1  
WITH MDOT FOR TWO CONTRACT MODIFICATIONS FOR THE ROBERT T. LONGWAY  
BLVD. PROJECT FROM CHAVEZ DR TO E. BOULEVARD

BY THE CITY ADMINISTRATOR:


On October 21, 2020, City Council approved resolution #200429, authorizing the Proper City Officials to enter into MDOT Contract No. 20-5358, Job No. 207637CON for the purpose of fixing the rights and obligations of the parties in agreeing to the following project: restoration work along Robert T. Longway Boulevard from Chavez Dr. to E. Boulevard Dr. in the amount of \$248,100.00.

There have been two contract modifications during the project which increased the overall cost by \$36,112.00. This increase is due to the additional water main valve manholes, plus they had to change the 8" pipe to a 12" pipe. The City of Flint, Department of Public Works is requesting a change order in the amount of \$36,112.00. Funding is available in the following account:

496-555.000-801.053	Water Capital Projects Grant	\$36,112.00
FEPA18WIIN-1		
	Total	\$36,112.00

**IT IS RESOLVED**, that appropriate City Officials are authorized to do all things necessary to enter change order #1 for MDOT Contract No. 20-5358, Job No. 207637 CON for Robert T. Longway Blvd. from Chavez Dr. to E. Boulevard Dr. due to increased water main costs in the amount of \$36,112.00 and a revised overall project cost of \$ \$284,212.00. (Water Capital Projects Grant)

APPROVED AS TO FORM:

  
Angela Wheeler (Aug 23, 2021 17:05 EDT)

Angela Wheeler, Chief Legal Officer

  
CLYDE D EDWARDS

CLYDE D EDWARDS (Aug 26, 2021 14:56 EDT)

Clyde Edwards, City Administrator

APPROVED AS TO FINANCE:



Robert J.F. Widigan, Interim CFO

CITY COUNCIL:

Kate Fields, Council President

## RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** August 23, 2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** Resolution to MDOT for change order #1 for the restoration work along Robert T. Longway from Chavez Dr. to E. Boulevard Dr.

**PREPARED BY** Kathryn Neumann for John Daly, Director of Transportation

**VENDOR NAME:** State of Michigan (MDOT)

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

On October 21, 2020, City Council approved resolution #200429, authorizing the Proper City Officials to enter into MDOT Contract for the purpose of fixing the rights and obligations of the parties in agreeing to the following project: restoration work along Robert T. Longway Boulevard from Chavez Dr. to E. Boulevard Dr. for an overall contract total of \$284,212.00. The original cost of the water main portion of this project was \$75,300 and we are adding \$36,112.00, so the new total for the water main updates will be \$111,412.00.

**FINANCIAL IMPLICATIONS:** There is money in the accounts listed below.

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
496	Water Capital Projects Grant Fund	555.000-801.053	FEPA18WIIN-1	\$36,112.00
		<b>FY22 GRAND TOTAL</b>		<b>\$36,112.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ **REQUISITION NO:** 220004894

**ACCOUNTING APPROVAL:** Kirstie Troup  
Kirstie Troup (Aug 23, 2021 14:19 EDT) **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☒ NO ☐  
(If yes, please indicate how many years for the contract) 1 YEAR

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**

John H. Daly III  
John H. Daly III (Aug 23, 2021 14:20 EDT)

John H. Daly, III, Director of Transportation

**APPROVED – GRANT FUND**

mmf  
Martita Moffett-Page (Aug 23, 2021 16:41 EDT)

Martita Moffett-Page  
Grants Administrator

RESOLUTION NO.: 210419PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

BY THE CITY ADMINISTRATOR:

RESOLUTION TO STATE OF MICHIGAN (MDOT) FOR CHANGE ORDER #1 TO THE  
CONSTRUCTION SERVICES FOR COURT ST. REHABILITATION  
FROM CRAPO TO CENTER RD.

On January 13, 2020, the Proper City Officials were authorized to enter into State of Michigan MDOT Contract No. 19-5152, per resolution #200014 for the Court St. rehabilitation from Crapo St. and Center Rd. in an amount including a local contribution of \$4,088,400.00 plus potential overruns in the amount of \$10,000.00 for a total of \$4,098,400.00, and

Over the course of the project, MDOT issued ten contract modifications, including storm sewer replacements, additional water main with valve vaults installations, curb and gutter replacements, as well as using more aggregates and asphalt that has resulted in additional fees in the amount of \$471,000.00 plus an additional \$10,000.00 for overruns for a total amount of \$481,000.00 and a revised aggregate of \$4,579,400.00. Funding for said services will come from the following accounts:

Dept.	Name of Account	Account Number	Grant Code	Amount
496	Water Capital Projects Grant Fund	555.000-801.053	FEPA18WIIN-1	\$300,000.00
202	Major Street Fund	441.702-801.000		\$181,000.00

**IT IS RESOLVED**, that the Proper City Officials, upon City Council's approval, are hereby authorized to enter into change order #1 to the contract with the State of Michigan (MDOT) Contract No. 19-5152 to cover ten contract modifications which includes storm sewer replacements, additional water main with valve vaults installations, as well as using more aggregates and asphalt has resulted in extra fees in the amount of \$471,000.00 plus an additional \$10,000.00 for overruns for a total amount of \$481,000.00 and a revised aggregate of \$4,579,400.00.

APPROVED AS TO FINANCE:

Jennifer Ryan

Jennifer Ryan (Aug 12, 2021 10:02 EDT)

Jennifer Ryan  
Deputy Finance Director

APPROVED AS TO FORM:

Angela Wheeler

Angela Wheeler (Aug 11, 2021 16:10 EDT)

Angela Wheeler, Chief Legal Officer

CLYDE D EDWARDS

CLYDE D EDWARDS (Aug 24, 2021 12:30 EDT)

Clyde Edwards, City Administrator

CITY COUNCIL:

Kate Fields  
Kate Fields, Council President

## RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** August 4, 2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** Resolution to MDOT for design changes to Court St. rehabilitation from Crapo to Center Rd.

**PREPARED BY** Kathryn Neumann for Michael Brown, Director of Public Works

**VENDOR NAME:** State of Michigan (MDOT)

### BACKGROUND/SUMMARY OF PROPOSED ACTION:

On January 13, 2020, the Proper City Officials were authorized to enter into State of Michigan MDOT Contract No. 19-5152, per resolution #200014 for the Court St. rehabilitation from Crapo St. and Center Rd. Over the course of the project, MDOT issued ten contract modifications, including storm sewer replacements, additional water main with valve vaults installations, curb and gutter replacements, as well as using more aggregates and asphalt has resulted in extra fees in the amount of \$471,000.00 plus an additional \$10,000.00 for overruns for a total amount of \$481,000.00 and a revised aggregate of \$4,579,400.00.

**FINANCIAL IMPLICATIONS:** There is money in the accounts listed below.

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
496	Water Capital Projects Grant Fund	555.000-801.053	FEPA18WIIN-1	\$300,000.00
202	Major Street Fund	441.702-801.000		\$181,000.00
<b>FY22 GRAND TOTAL</b>				<b>\$481,000.00</b>

**PRE-ENCUMBERED?** YES ☒ NO ☐ REQUISITION NO: 22000

**ACCOUNTING APPROVAL:** Kirstie Troup Kirstie Troup (Aug 4, 2021 12:17 EDT) **Date:** \_\_\_\_\_

**WILL YOUR DEPARTMENT NEED A CONTRACT?** YES ☒ NO ☐  
(If yes, please indicate how many years for the contract) 1 YEAR

**OTHER IMPLICATIONS (i.e., collective bargaining):** None

**STAFF RECOMMENDATION: (PLEASE SELECT):** ☒ **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**

John H. Daly III  
John H. Daly III (Aug 4, 2021 13:45 EDT)

John H. Daly, III, Director of Transportation

**APPROVED - GRANTS**

Martita Moffett-Page  
Martita Moffett-Page (Aug 12, 2021 09:36 EDT)

Martita Moffett-Page

RESOLUTION NO.: 210420

PRESENTED: \_\_\_\_\_

ADOPTED: \_\_\_\_\_

BY THE CITY ADMINISTRATOR:

RESOLUTION AUTHORIZING APPROPRIATE CITY OFFICIALS TO DO ALL THINGS NECESSARY TO  
PROCESS A BUDGET AMENDMENT TO TRANSFER FUNDS WITHIN THE DPW - TRANSPORTATION  
DIVISION FOR SHORTAGES IN THE MAJOR AND LOCAL STREET FUNDS

To maintain a balanced departmental budget, it is necessary that appropriated funding be increased and adjusted within the Department of Public Works, Transportation Division budget in the amount of \$8,040,348.00 to cover Major Street Fund (202) and Local Street Fund (203) funds into the following account numbers:

Dept.	Name of Account	Account Number	Grant Code	Amount
202	Professional Services	441.702-801.000	N/A	5,983,600
202	Printing & Publishing	442.100-900.000	N/A	270
202	Professional Services	443.200-801.000	N/A	90,000
202	Supplies	443.201-752.000	N/A	44,000
202	Uniforms	443.201-758.000	N/A	650
202	Professional Services	443.201-801.000	N/A	260,000
202	Supplies	449.200-752.000	N/A	3,425
202	Professional Services	449.200-801.000	N/A	460,000
202	Supplies	449.201-752.000	N/A	58,800
202	Asphalt-Outside	449.201-782.000	N/A	60,550
202	Professional Services	449.201-801.000	N/A	13,000
202	Supplies	449.203-752.000	N/A	34,750
202	Vehicle & Equip Intercity	449.203-863.900	N/A	19,725
202	Building Additions & Improvements	449.203-976.000	N/A	74,000
202	Supplies	449.211-752.000	N/A	17,200
202	Asphalt-Outside	449.211-782.000	N/A	3,400
202	Professional Services	449.215-801.000	N/A	25,000
203	Supplies	443.201-752.000	N/A	24,000
203	Supplies	449.200-752.000	N/A	17,525
203	Supplies	449.201-752.000	N/A	78,000
203	Professional Services	449.201-801.000	N/A	78,160
203	Vehicle & Equip Intercity	449.201-863.900	N/A	42,750
203	Supplies	449.203-752.000	N/A	15,502
203	Asphalt-Outside	449.203-782.000	N/A	5,950
203	Supplies	449.211-752.000	N/A	42,000
203	Asphalt-Outside	449.211-782.000	N/A	10,500
203	Professional Services	449.215-801.000	N/A	95,000

202	Wages Full-time	442.100-702.000	N/A	45,389
202	Salaried Employee (Exempt)	442.100-703.000	N/A	(45,389)
202	Sick, Vacation & Accrued	442.100-705.000	N/A	4,872
202	Accrued Absences	442.100-705.300	N/A	1,190
202	Worker's Compensation	442.100-735.000	N/A	5,460
202	Temp & Seasonal Employees	442.100-707.000	N/A	26,000
202	Wages Full-time	443.201-702.000	N/A	22,943
202	Sick, Vacation & Accrued	443.201-705.000	N/A	64,480
202	Accrued Absences	443.201-705.300	N/A	6,690
202	Overtime	443.201-713.000	N/A	10,106
202	Worker's Compensation	443.201-735.000	N/A	30,420
202	Sick, Vacation & Accrued	449.201-705.000	N/A	83,850
202	Accrued Absences	449.201-705.300	N/A	16,180
202	Worker's Compensation	449.201-735.000	N/A	74,340
202	Temp & Seasonal Employees	449.201-707.000	N/A	73,245
202	Wages Full-time	449.203-702.000	N/A	24,327
202	Salaried Employee (Exempt)	449.203-703.000	N/A	(24,327)
202	Sick, Vacation & Accrued	449.203-705.000	N/A	820
202	Accrued Absences	449.203-705.300	N/A	85
202	Worker's Compensation	449.203-735.000	N/A	400
202	Temp & Seasonal Employees	449.211-707.000	N/A	3,600
203	Wages Full-time	442.100-702.000	N/A	42,480
203	Salaried Employee (Exempt)	442.100-703.000	N/A	(38,380)
203	Sick, Vacation & Accrued	442.100-705.000	N/A	3,275
203	Accrued Absences	442.100-705.300	N/A	1,120
203	Worker's Compensation	442.100-735.000	N/A	5,096
203	Wages Full-time	443.201-702.000	N/A	7,184
203	Overtime	443.201-713.000	N/A	7,300
203	Wages Full-time	449.200-702.000	N/A	45,600
203	Unemployment Compensation	449.200-708.000	N/A	1,800
203	FICA (Social Security)	449.200-709.000	N/A	4,715
203	Medicare	449.200-711.000	N/A	2,230
203	Overtime	449.200-713.000	N/A	14,219
203	Temp & Seasonal Employees	449.200-707.000	N/A	40,310
203	Wages Full-time	449.201-702.000	N/A	24,327
203	Salaried Employee (Exempt)	449.201-703.000	N/A	(24,327)
203	Wages (Part-time)	449.201-704.000	N/A	(162,000)
203	Sick, Vacation & Accrued	449.201-705.000	N/A	820
203	Accrued Absences	449.201-705.300	N/A	824
203	Worker's Compensation	449.201-735.000	N/A	830
203	Temp & Seasonal Employees	449.201-707.000	N/A	81,760
203	Salaried Employee (Exempt)	449.203-703.000	N/A	(24,327)
203	Sick, Vacation & Accrued	449.203-705.000	N/A	820
203	Accrued Absences	449.203-705.300	N/A	84

203	Worker's Compensation	449.203-735.000	N/A	390
203	Temp & Seasonal Employees	449.211-707.000	N/A	21,760
<b>FY21/22 GRAND TOTAL</b>				<b>\$8,040,348</b>

Per Public Act 51, Major and Local Street Funds are restricted funds. Use of Major and Local Street Funds are limited to transportation purposes. The failure to use these funds will result in the reduction of future funds that the City may have been entitled to for the period of one year. The FY2020 audited fund balance for these funds is \$21,004,481.

In accordance with Budget Ordinance #3856 adopted 1-25-15, budget amendments in excess of \$25,000 shall be submitted to City Council for its approval;

**IT IS RESOLVED**, that the appropriate city officials are hereby authorized to do all things necessary to amend the 2021-2022 budget of the City of Flint to reflect the changes requested above to the City's DPW – Transportation Major Street Fund (202) and Local Street Fund (203) for a total change of \$8,040,348.00.

APPROVED AS TO FORM:

*Angela Wheeler*  
Angela Wheeler (Aug 19, 2021 16:08 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

*Robert J.F. Widigan*  
Robert J.F. Widigan (Aug 20, 2021 16:53 EDT)

Robert Widigan, Interim Chief Financial Officer

APPROVED FOR THE CITY OF FLINT:

*CLYDE D EDWARDS*  
CLYDE D EDWARDS (Aug 24, 2021 12:29 EDT)

Clyde Edwards, City Administrator

CITY COUNCIL:

\_\_\_\_\_  
Kate Fields, Council President

FY22 - KRN





## CITY OF FLINT

### RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 07/19/2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:**

**PREPARED BY:** Kirstie S. Troup, Department of Transportation  
(Please type name and Department)

**VENDOR NAME:**

**BACKGROUND/SUMMARY OF PROPOSED ACTION:**

First Quarter Budget Amendment in order to request additional funding for all DPW – Transportation Division accounts appropriately in order to cover all necessary requisitions in the P.O. System to complete work agreements with the State of Michigan per ACT51 State Requirements.  
At the time of the budget, the City was not sure it would be able to secure the resources because of Covid-19 to complete the work this year. We now know the City has the resources and the ability to get the work done and in doing so we will not lose future funding from the state.

**FINANCIAL IMPLICATIONS:**

**BUDGETED EXPENDITURE?** YES ☐ NO ☐ IF NO, PLEASE EXPLAIN:

Dept.	Name of Account	Account Number	Grant Code	Amount
202	Professional Services	441.702-801.000	N/A	5,983,600
202	Printing & Publishing	442.100-900.000	N/A	270
202	Professional Services	443.200-801.000	N/A	90,000
202	Supplies	443.201-752.000	N/A	44,000
202	Uniforms	443.201-758.000	N/A	650
202	Professional Services	443.201-801.000	N/A	260,000
202	Supplies	449.200-752.000	N/A	3,425
202	Professional Services	449.200-801.000	N/A	460,000
202	Supplies	449.201-752.000	N/A	58,800
202	Asphalt-Outside	449.201-782.000	N/A	60,550
202	Professional Services	449.201-801.000	N/A	13,000
202	Supplies	449.203-752.000	N/A	34,750
202	Vehicle & Equip Intercity	449.203-863.900	N/A	19,725
202	Building Additions & Improvements	449.203-976.000	N/A	74,000



## CITY OF FLINT

202	Supplies	449.211-752.000	N/A	17,200
202	Asphalt-Outside	449.211-782.000	N/A	3,400
202	Professional Services	449.215-801.000	N/A	25,000
203	Supplies	443.201-752.000	N/A	24,000
203	Supplies	449.200-752.000	N/A	17,525
203	Supplies	449.201-752.000	N/A	78,000
203	Professional Services	449.201-801.000	N/A	78,160
203	Vehicle & Equip Intercity	449.201-863.900	N/A	42,750
203	Supplies	449.203-752.000	N/A	15,502
203	Asphalt-Outside	449.203-782.000	N/A	5,950
203	Supplies	449.211-752.000	N/A	42,000
203	Asphalt-Outside	449.211-782.000	N/A	10,500
203	Professional Services	449.215-801.000	N/A	95,000
202	Wages Full-time	442.100-702.000	N/A	45,389
202	Salaried Employee (Exempt)	442.100-703.000	N/A	(45,389)
202	Sick, Vacation & Accrued	442.100-705.000	N/A	4,872
202	Accrued Absences	442.100-705.300	N/A	1,190
202	Worker's Compensation	442.100-735.000	N/A	5,460
202	Temp & Seasonal Employees	442.100-707.000	N/A	26,000
202	Wages Full-time	443.201-702.000	N/A	22,943
202	Sick, Vacation & Accrued	443.201-705.000	N/A	64,480
202	Accrued Absences	443.201-705.300	N/A	6,690
202	Overtime	443.201-713.000	N/A	10,106
202	Worker's Compensation	443.201-735.000	N/A	30,420
202	Sick, Vacation & Accrued	449.201-705.000	N/A	83,850
202	Accrued Absences	449.201-705.300	N/A	16,180
202	Worker's Compensation	449.201-735.000	N/A	74,340
202	Temp & Seasonal Employees	449.201-707.000	N/A	73,245
202	Wages Full-time	449.203-702.000	N/A	24,327
202	Salaried Employee (Exempt)	449.203-703.000	N/A	(24,327)
202	Sick, Vacation & Accrued	449.203-705.000	N/A	820
202	Accrued Absences	449.203-705.300	N/A	85
202	Worker's Compensation	449.203-735.000	N/A	400
202	Temp & Seasonal Employees	449.211-707.000	N/A	3,600
203	Wages Full-time	442.100-702.000	N/A	42,480
203	Salaried Employee (Exempt)	442.100-703.000	N/A	(38,380)
203	Sick, Vacation & Accrued	442.100-705.000	N/A	3,275
203	Accrued Absences	442.100-705.300	N/A	1,120
203	Worker's Compensation	442.100-735.000	N/A	5,096
203	Wages Full-time	443.201-702.000	N/A	7,184
203	Overtime	443.201-713.000	N/A	7,300



## CITY OF FLINT

203	Wages Full-time	449.200-702.000	N/A	45,600
203	Unemployment Compensation	449.200-708.000	N/A	1,800
203	FICA (Social Security)	449.200-709.000	N/A	4,715
203	Medicare	449.200-711.000	N/A	2,230
203	Overtime	449.200-713.000	N/A	14,219
203	Temp & Seasonal Employees	449.200-707.000	N/A	40,310
203	Wages Full-time	449.201-702.000	N/A	24,327
203	Salaried Employee (Exempt)	449.201-703.000	N/A	(24,327)
203	Wages (Part-time)	449.201-704.000	N/A	(162,000)
203	Sick, Vacation & Accrued	449.201-705.000	N/A	820
203	Accrued Absences	449.201-705.300	N/A	824
203	Worker's Compensation	449.201-735.000	N/A	830
203	Temp & Seasonal Employees	449.201-707.000	N/A	81,760
203	Salaried Employee (Exempt)	449.203-703.000	N/A	(24,327)
203	Sick, Vacation & Accrued	449.203-705.000	N/A	820
203	Accrued Absences	449.203-705.300	N/A	84
203	Worker's Compensation	449.203-735.000	N/A	390
203	Temp & Seasonal Employees	449.211-707.000	N/A	21,760
<b>FY21/22 GRAND TOTAL</b>				<b>\$8,040,348</b>

PRE-ENCUMBERED? YES ☐ NO ☐ REQUISITION NO:

ACCOUNTING APPROVAL: Kirstie J. Troup Date: 07/19/21

OTHER IMPLICATIONS (i.e., collective bargaining): None

STAFF RECOMMENDATION: (PLEASE SELECT): ☐ APPROVED ☐ NOT APPROVED

DEPARTMENT HEAD SIGNATURE: Michael JV Brown  
Michael JV Brown (Jul 26, 2021 16:22 EDT)  
(Michael J. Brown, Director of Public Works)



RESOLUTION NO.:

210421

PRESENTED:

SEP - 8 2021

ADOPTED:

BY THE CITY ADMINISTRATOR:

**RESOLUTION AUTHORIZING APPROPRIATE CITY OFFICIALS TO DO ALL THINGS NECESSARY TO PROCESS A BUDGET AMENDMENT TO TRANSFER FUNDS WITHIN THE INFORMATION TECHNOLOGY SERVICES FOR EQUIPMENT**


To maintain a balanced departmental budget, it is necessary that appropriated funding be moved within the Information Technology Fund Services balance in the amount of \$651,087.00 to cover the Equipment fund (636) into the following account numbers:

Account Number	Account Name	Amount
636-228.100-977.000	Equipment	\$651,087.00

In accordance with Budget Ordinance #2856 adopted 1-25-15, budget amendments in excess of \$25,000 shall be submitted to City Council for its approval. The funds were budgeted in previous years and were rolled into the Information Technology Fund Services Balance Fund because the work was not done..

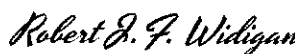
IT IS RESOLVED, that the appropriate city officials are hereby authorized to do all things necessary to amend the 2021-2022 budget of the City of Flint to reflect the changes requested above to the City's Information Technology Service Equipment Fund (636) for a total change of \$651,087.00.

APPROVED AS TO FORM:

  
Angela Wheeler (Aug 31, 2021 14:59 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:



Robert Widigan, Interim Chief Financial Officer

FOR THE CITY OF FLINT:

  
CLYDE D EDWARDS (Aug 31, 2021 16:36 EDT)

Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

  
Kate Fields, Council President



# CITY OF FLINT

## RESOLUTION STAFF REVIEW FORM

**TODAY'S DATE:** 08/24/2021

**BID/PROPOSAL#**

**AGENDA ITEM TITLE:** Budget Amendment for Information Technology Services

**PREPARED BY** Monique Cole, Information Technology Services  
(Please type name and Department)

**VENDOR NAME:**

### BACKGROUND/SUMMARY OF PROPOSED ACTION:

Budget Amendment to request additional funding for the Information Technology Services Equipment account in order to fund the replacement of our computers and laptops (Req: 22-0004920). This was budgeted for in previous years and those funds were rolled into IT Service fund balance because the work was not done at that time.

We are requesting \$651,087.00 to be transferred from the IT Service Fund Balance.

### FINANCIAL IMPLICATIONS:

**BUDGETED EXPENDITURE?** YES ☒ NO ☐ IF NO, PLEASE EXPLAIN:

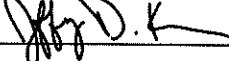
Dept.	Name of Account	Account Number	Grant Code	Amount
636	Equipment	636-228.100-977.000		\$651.087.00
		<b>FY21/22 GRAND TOTAL</b>		<b>\$651,087.00</b>

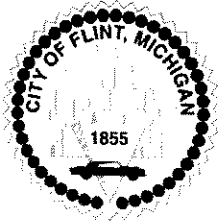
**PRE-ENCUMBERED?** YES ☐ NO ☐ **REQUISITION NO:** 2021-0004920

**ACCOUNTING APPROVAL:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**OTHER IMPLICATIONS (i.e., collective bargaining):**

**STAFF RECOMMENDATION: (PLEASE SELECT):** X **APPROVED** ☐ **NOT APPROVED**

**DEPARTMENT HEAD SIGNATURE:**  Jeffrey D. Keen, IT Director  
(PLEASE TYPE NAME, TITLE)



PROPOSAL#

RESOLUTION NO.: 210422

PRESENTED: SEP - 8 2021

ADOPTED: \_\_\_\_\_

BY THE CITY ADMINISTRATOR:

**RESOLUTION TO DELL MARKETING L.P. FOR UPDATED IT HARDWARE**

WHEREAS, The City of Flint Information Technology Department requests an upgrade of outdated computer equipment that is over ten years old. The replacements will take advantage of updated technology as well as increase employee efficiencies.

WHEREAS, the purchase would include desktop computers, laptop computers, docking stations, keyboards and mouse. Dell Marketing L.P. has a cooperative agreement with michigan.gov/dtmb MiDeal, contract #071B6600111.

Account Number	Account Name	Amount
636-228.100-997.000	Computer Equipment	\$ 651,087.00
	<b>FY22 GRAND TOTAL</b>	<b>\$651,087.00</b>

IT IS RESOLVED, that the Proper City Officials, upon City Council's approval, are hereby authorized to enter into a contract with Dell Marketing L.P. for upgrades to IT computers and equipment for FY22 (07/01/21-06/30/22) for the amount not to exceed \$651,087.00.

APPROVED AS TO FORM:

Angela Wheeler  
Angela Wheeler (Aug 31, 2021 15:47 EDT)

Angela Wheeler, Chief Legal Officer

APPROVED AS TO FINANCE:

Robert J. F. Widigan

Robert Widigan, Interim Chief Financial Officer

FOR THE CITY OF FLINT:

CLYDE D EDWARDS  
CLYDE D EDWARDS (Aug 31, 2021 16:00 EDT)

Clyde Edwards, City Administrator

APPROVED BY CITY COUNCIL:

Kate Fields, City Council President

APPROVED AS TO PURCHASING:

Lauren Rowley

Lauren Rowley, Purchasing Manager





## CITY OF FLINT

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ACCOUNTING APPROVAL: \_\_\_\_\_ Date: \_\_\_\_\_

WILL YOUR DEPARTMENT NEED A CONTRACT? YES ☐ NO ☒  
(If yes, please indicate how many years for the contract) YEARS

WHEN APPLICABLE, IF MORE THAN ONE (1) YEAR, PLEASE ESTIMATE TOTAL AMOUNT FOR EACH BUDGET YEAR: (This will depend on the term of the bid proposal)

BUDGET YEAR 1 \$651,087.00

BUDGET YEAR 2

BUDGET YEAR 3

OTHER IMPLICATIONS (i.e., collective bargaining):

STAFF RECOMMENDATION: (PLEASE SELECT): ☒ APPROVED ☐ NOT APPROVED

DEPARTMENT HEAD SIGNATURE: Jeffrey D. Keen Jeffrey D. Keen, IT Director  
(PLEASE TYPE NAME, TITLE)

**DEPARTMENT HEAD MUST SIGN**





## A quote for your consideration

Based on your business needs, we put the following quote together to help with your purchase decision. Below is a detailed summary of the quote we've created to help you with your purchase decision.

To proceed with this quote, you may respond to this email, order online through your **Premier page**, or, if you do not have Premier, use this **Quote to Order**.

<b>Quote No.</b>	<b>3000091490270.4</b>	<b>Sales Rep</b>	Derek Smith
<b>Total</b>	<b>\$651,087.00</b>	<b>Phone</b>	(800) 456-3355, 6183773
<b>Customer #</b>	10250695	<b>Email</b>	Derek.S@dell.com
<b>Quoted On</b>	Aug. 19, 2021	<b>Billing To</b>	PAYABLE ACCOUNTS PAYABLE
<b>Expires by</b>	Sep. 18, 2021		CITY OF FLINT
<b>Contract Name</b>	Dell Midwestern Higher Education Compact (MHEC) Master Agreement		1101 S SAGINAW ST
<b>Contract Code</b>	C000000181093		FLINT, MI 48502-1420
<b>Customer Agreement #</b>	MHEC-07012015		
<b>Deal ID</b>	21602589		

### Message from your Sales Rep

Please contact your Dell sales representative if you have any questions or when you're ready to place an order. Thank you for shopping with Dell!

Regards,  
Derek Smith

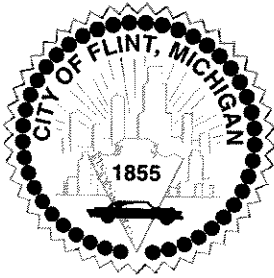
### Shipping Group

<b>Shipping To</b>	<b>Shipping Method</b>
ZACH SMITH CITY OF FLINT 1101 S SAGINAW ST FLINT, MI 48502 (810) 691-1568	Standard Delivery

Product	Unit Price	Quantity	Subtotal
OptiPlex 5090 Small Form Factor	\$1,512.18	360	\$544,384.80
Dell Latitude 7420	\$1,517.80	60	\$91,068.00
Dell Thunderbolt Dock- WD19TBS	\$230.99	60	\$13,859.40
Dell Pro Wireless Keyboard and Mouse - KM52221W	\$29.58	60	\$1,774.80

<b>Subtotal:</b>	<b>\$651,087.00</b>
<b>Shipping:</b>	<b>\$0.00</b>
<b>Non-Taxable Amount:</b>	<b>\$651,087.00</b>
<b>Taxable Amount:</b>	<b>\$0.00</b>
<b>Estimated Tax:</b>	<b>\$0.00</b>
<b>Total:</b>	<b>\$651,087.00</b>

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.



RESOLUTION: \_\_\_\_\_

210425

PRESENTED: \_\_\_\_\_

SEP - 8 2021

ADOPTED: \_\_\_\_\_

**RESOLUTION TO APPROVE AMENDMENT OF THE FLINT WATER LITIGATION  
SETTLEMENT AGREEMENT**

**BY THE CITY COUNCIL:**

**WHEREAS** the City of Flint agreed to resolve, to the maximum extent possible, Flint Water Litigation claims against them by joining a Settlement announced in August, 2020, the terms of which were made public on or about November 18, 2020; and

**WHEREAS**, it is extremely likely that the McLaren Defendants will have walkaway rights that would enable them to withdraw from the Settlement Agreement and remove their \$20 million contribution from the Settlement Funds; and

**WHEREAS**, amending the Flint Water Litigation Settlement Agreement to allow the McLaren Defendants to remain party to the Settlement Agreement at a reduced contribution will result in a larger settlement fund than if the McLaren Defendants exercise their walkaway rights; and

**WHEREAS**, any such amendment will have no financial impact on the City of Flint's participation in the Settlement Agreement and will make more funds available to the residents of Flint who are participating in the Flint Water Litigation Settlement Agreement;

**THEREFORE, BE IT RESOLVED** that the Flint City Council approves and consents to amending the Flint Water Litigation Settlement Agreement to allow the McLaren Defendants to remain parties to the Settlement Agreement at a reduced contribution.

**APPROVED BY CITY COUNCIL:**

\_\_\_\_\_  
Kate Fields, City Council President

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Angela Wheeler (Sep 8, 2021 12:59 EDT)

Angela Wheeler, Chief Legal Officer

**APPROVED AS TO FINANCE:**

\_\_\_\_\_  
Robert J. F. Widigan

Robert J. F. Widigan, Chief Financial Officer

210427

ORDINANCE NO. \_\_\_\_\_

An ordinance to amend the Code of the City of Flint by amending Chapter 18, Taxation; Funds; Purchasing; Article I, In General; Section 18-4.1, Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons.

IT IS HEREBY ORDAINED BY PEOPLE OF THE CITY OF FLINT:

Sec. 1. That the provisions of Chapter 18, Taxation; Funds; Purchasing; Article I, In General; Section 18-4.1, Service Charge in Lieu of Taxes for Housing Facilities for Certain Persons, shall be amended by adding subsection (GG), which shall read in its entirety as follows:

(GG) THE CITY ACKNOWLEDGES THAT 700 E COURT STREET VILLAGE LOW INCOME HOUSING LIMITED DIVIDEND HOUSING ASSOCIATION LP (THE "OWNER") HAS OFFERED, SUBJECT TO RECEIPT OF AN AUTHORITY-AIDED OR FEDERALLY-AIDED MORTGAGE LOAN AND/OR ALLOCATION OF LOW INCOME HOUSING TAX CREDITS FROM THE MICHIGAN STATE HOUSING AND DEVELOPMENT AUTHORITY ("MSHDA"), TO OWN AND OPERATE A HOUSING PROJECT IDENTIFIED AS "THE GRAND" (THE "PROJECT") ON CERTAIN PROPERTY LOCATED IN THE CITY TO SERVE PERSONS AND FAMILIES OF LOW INCOME, AND THAT THE SPONSOR HAS OFFERED TO PAY THE CITY ON ACCOUNT OF THIS HOUSING DEVELOPMENT AN ANNUAL SERVICE CHARGE FOR PUBLIC SERVICES IN LIEU OF AD VALOREM TAXES.

THE CITY ACKNOWLEDGES THAT THE SPONSOR SHALL BE AFFORDED TAX BENEFITS OF PAYING A SERVICE CHARGE

IN LIEU OF AD VALOREM TAXES (BUT NOT IN LIEU OF PAYMENT OF SPECIAL ASSESSMENTS INCLUDING, BUT NOT LIMITED TO, THE STREET LIGHTING SPECIAL ASSESSMENT). THE CITY FURTHER ACKNOWLEDGES THAT THE SPONSOR FITS WITHIN THE CLASS AS DESCRIBED IN §18-4.3 BELOW. THE ANNUAL SERVICE CHARGE FOR THE CLASS OF PERSONS OF LOW AND MODERATE INCOME SHALL BE EQUAL TO FOUR PERCENT (4%) OF THE ANNUAL SHELTER RENTS, EXCLUSIVE OF CHARGES FOR GAS, ELECTRICITY, HEAT, OR OTHER UTILITIES FURNISHED TO THE OCCUPANTS, INCLUDING THE PORTION OF RENT PAYABLE UNDER ANY GOVERNMENTAL SUBSIDY. NOTWITHSTANDING THE FOREGOING, THE ANNUAL SERVICE CHARGE SHALL NOT EXCEED AD VALOREM PROPERTY TAXES THAT WOULD BE ASSESSED OR PAID ABSENT THIS TAX EXEMPTION.

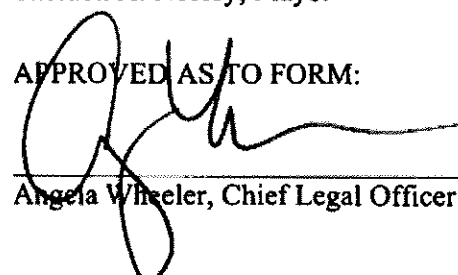
Sec. 2. This ordinance shall become effective immediately upon publication.

Adopted this \_\_\_\_\_ day of \_\_\_\_\_,

\_\_\_\_\_, 2021 A.D.

\_\_\_\_\_  
Sheldon A. Neeley, Mayor

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Angela Wheeler, Chief Legal Officer

**ORDINANCE REVIEW FORM**

FROM: Planning and Development  
Department

NO. 21-  
Law Office Login #

ORDINANCE NAME: (GG) PILOT ORDINANCE RESOLUTION TO GRANT A FOUR (4%) PAYMENT IN LIEU OF TAXES (PILOT) TO PROJECT KNOWN AS COURT STREET WEST VILLAGE, WHICH WILL PROVIDE AFFORDABLE ASSISTED LIVING ACCOMADATIONS THROUGH MODERNIZATON EFFORTS OF AN EXISTING PROPERTY, WITH A TOTAL OF 119 UNITS OF HOUSING.

**1. ORDINANCE REVIEW - DEPARTMENT DIRECTOR**

The attached ORDINANCE is approved by the Director of the affected Department. By signing, the Director approves this ordinance to be processed for signatures and fully executed.

By: Director *Suzanne Wilcox*  
Suzanne Wilcox (Aug 20, 2021 12:05 EDT)  
Suzanne Wilcox, Director, P&D DATE: August 20, 2021

**2. ORDINANCE REVIEW-FINANCE DEPARTMENT**

The attached ORDINANCE is submitted to the Finance Department for approval. By signing, the Finance Department approves this ordinance to be processed for signatures and fully executed.

By: *Robert J. F. Widigan*  
Robert Widigan, Interim Chief Financial Officer DATE: August 21, 2021

**3. ORDINANCE REVIEW - LAW DEPARTMENT**

The attached ORDINANCE is submitted to the Legal Department for approval. By signing, the Legal Department approves this ordinance to be processed for signatures and fully executed.

By: *Angela Wheeler*  
Angela Wheeler (Aug 22, 2021 10:55 EDT) DATE: 8/22/2021  
Angela Wheeler, Chief Legal Officer

**700 E Court Street Villagers Limited Div, 700 E Court St, Tax vs PILOT Comparison**

1) Current taxable value:	\$0	
2) PILOT estimation	\$27,000.00	
3) Current PILOT	\$22,523.00	
		<b>DIFFERENCE BETWEEN PILOT AND TAXES: \$358,460.75 per year</b>

Based on the Schedule of Rents provided by McFarlan/Court St Village, at 100% occupancy, given its rental rates for households at 30%, 40%, and 60% of AMI, the total annual rent potential for the 119 units is \$385,461.

<b>3) Estimated project ad valorem taxable value:</b>			
	<b>One Bedroom</b>	<b>Two Bedroom</b>	<b>Efficiency</b>
Market Rent	\$600	\$800	\$450
Number of Units	73	22	24
	\$43,800	\$17,600	\$10,800

Monthly Income	\$72,200
Yearly Income	\$866,400
Vacancy/Loss (10%)	(\$86,640)
Potential Gross Income	\$779,760
Expenses	\$350,892
Net Operating Income	\$1,130,652
Cap Rate of 10%	\$11,306,520
SEV/TV	5,653,260
<b>Potential Taxes</b>	<b>\$385,461</b>

# **PAYMENT IN LIEU OF TAXES (PILOT) APPLICATION**



**Submitted by  
McFarlan Charitable Corporation  
for  
CO-DEVELOPERS  
PRESYTERIAN VILLAGES OF MICHIGAN AND MCFARLAN CHARITABLE CORPORATION  
FOR THE  
700 E. COURT STREET VILLAGE LIMITED DIVIDEND HOUSING ASSOCIATION LIMITED PARTNERSHIP**

**To the  
CITY OF FLINT  
1101 S SAGINAW ST.  
FLINT, MI 48502**

TEL: 810-766

### **PURPOSE**

To administer the City of Flint Code of Ordinances 18-4.1 to 18-4.8, establishing a class of housing developments pursuant to the State Housing Development Authority Act of 1966, known as Act 436 of the Acts of 1966, being MCLA §§ 125.1401 et seq. , as amended, which are exempt from property taxes, paying instead a service charge to be paid in lieu of taxes (PILOT) by any or all classes of housing exempt from taxation under this Act at any amount it chooses, but not to exceed the taxes that would be paid for if not for this Act.

The City acknowledges that serving persons of low income is a public necessity, and as such the City of Flint will be benefited and improved by such housing, the encouragement of the same by providing certain real estate tax exemption for such housing is a valid public purpose. The applicant for a PILOT is affirming that the economic feasibility of this housing development is reliant on this requested tax exemption.

Furthermore, in considering this application for PILOT, the evaluators of such request shall consider that the community shall be developed in a manner consistent with the adopted Master Plan and Consolidated Action Plan. Evaluation of the application should take into consideration maintaining the overall goals and objectives set forth in these plans.

### **ELIGIBILITY**

- 1) Applicant must be a nonprofit housing corporation, consumer housing cooperative, limited dividend housing corporation, mobile home park cooperative or mobile home park association, and must be financed with a federally aided or Michigan State Housing Development Authority (MSHDA) aided mortgage or advance or grant from MSHDA.

**APPLICANT IS A LIMITED DIVIDEND CORPORATION ESTABLISHED BY CODEVELOPERS PRESBYTERIAN VILLAGES OF MICHIGAN AND THE MCFARLAN CHARITABLE CORPORATION**

- 2) PILOT has been requested during the planning stage of the project; any development project under construction at the time of application is not eligible to apply for, or to receive, a PILOT.

**PILOT IS BEING REQUESTED DURING THE PLANNING PHASE**

- 3) The applicant must own the property or have an option or other right to purchase the property under consideration and provide in application.

**IN PROCESS**

- 4) Housing development must contain a minimum of 51% affordable units.

**THE PROJECT WILL CONTAIN 90% AFFORDABLE UNITS**



- 5) Project includes a Low-Income Housing Tax Credit (LIHTC) allocation.  
**THE PURPOSE OF THE PILOT IS TO OBTAIN A LIHTC ALLOCATION FROM MSHDA**
- 6) The property is not designated as a Brownfield or 5/50 property or has contacted City to discuss.  
**THE PROPERTY IS NOT DESIGNATED AS EITHER**
- 7) All parcels that are separate have been combined through proper City channels.  
**THE PARCEL IS A SINGLE LOT**

#### PROCESS

- 1) **Mandatory Pre-Application Conference:** This will be a meeting of all applicable City Departments to include:

- City Administrator
- City Planner
- City Engineer
- City Treasurer
- City Assessor
- Chief Building Official
- Community and Economic Development Staff
- Representatives of applicant development team

This meeting will serve to familiarize all parties with the scope of the project and any issues that may exist. The applicant will also be familiarized with the PILOT process and policies.

- 2) **Submission of Application:** Application form must be complete and packet of required supporting documentation assembled based upon requirements set forth in the application. Any additional concerns or items that were discussed in the Pre-Application Conference should also be addressed. Application forms are available on both the City of Flint website and in the Department of Community and Economic Development.

One original and one electronic copy shall be submitted no later than seven (7) weeks before the Regular City Council meeting, which are typically held on the 2<sup>nd</sup> and 4<sup>th</sup> Mondays of each month.

- 3) **Internal (Administrative) Review:** An internal review will occur, resulting in either administrative approval within three (3) weeks or return to the applicant for corrections.

Applications will be scored on a scoring matrix as attached in this application.

Administrative approval will move the application forward to an ordinance amendment that will be placed on the Government Operation Committee meeting agenda.

- 4) **Council Committee Review:** Meetings are held the Wednesday prior to the Regular City Council meeting. The developer is required to be in attendance at this meeting to answer any questions the committee may have.

5) **Review by City Council:** Once committee approval is obtained, the ordinance amendment will proceed to the following Regular City Council Meeting (the Monday following committee). The developer is required to be in attendance at this meeting.

6) **Approval:** If the PILOT application is approved by resolution of the City Council, a certified copy of the resolution and a copy of the minutes will be provided to the applicant. Additionally, digital copies will be provided to all applicable City Departments.

***\*Note: All applicants are required to file their MSHDA Affidavit with the City Assessor by November 1 of the year before the PILOT is to take effect.***

## **APPLICATION REQUIREMENTS**

1) Completed Application Form  
**COMPLETED**

2) Narrative:

a. Background information:

- i. Development experience of team  
**SEE EXHIBIT A – DEVELOPMENT EXPERIENCE**
- ii. Describe the corporate partnership Structure  
**SEE EXHIBIT B – ORGANIZATION STRUCTURE**

b. Describe the proposed Project (include the following sections):

- i. Intended usage/target market  
**ELDERLY INDIVIDUALS NEEDING AFFORDABLE HOUSING AND AFFORDABLE ASSISTED LIVING**
- i. Economic impact  
**DEVELOPMENT COSTS ARE EXPECTED TO BE APPROXIMATELY \$20 MILLION WHICH THE CONSTRUCTION MANAGER ESTIMATES WILL CREATE 48 FULL TIME PREVAILING WAGE JOBS DURING CONSTRUCTION. NO NEW JOBS WILL BE CREATED TO SUPPORT THE REAL ESTATE OPERATIONS. APPROXIMATELY 35 NEW STAFF WILL BE HIRED TO SUPPORT THE ASSISTED LIVING COMPONENT.**
- ii. Environmental impact (to include any mitigation actions taken)  
**PHASE 1 ENVIRONMENTAL ASSESSMENTS ARE BEING CONDUCTED PRESENTLY. NO DELETERIOUS IMPACTS ARE EXPECTED. REPORT WILL BE PROVIDED AS SOON AS AVAILABLE**
- iii. Impact on City infrastructure (transportation and utilities)  
**ALTHOUGH 13 UNITS WILL BE ADDED BY BREAKING SEVERAL 2 BEDROOM UNITS INTO 1 BEDROOM AND STUDIO APARTMENTS, 35 UNITS WILL BE OCCUPIED BY PERSONS REQUIRING ASSISTED LIVIONG INCLUDING MEMORY CARE. BY ASSUMING THIS RESPONSIBILITY, IT IS EXPECTED THAT THE IMPACT ON CITY INFRASTRUCTURE WILL BE LESS.**
- iv. Impact on City services (police, fire, EMS, code enforcement)  
**THE IMPACT IS UNCHANGED—THIS IS AN EXISTING BUILDING THAT THE CITY PROVIDES SERVICES TO SO IT SHOULD NOT CHANGE. ALSO SEE ITEM iii.**
- v. Square footage of the building and land to be renovated  
**THE BUILDING IS 114,259 SQUARE FEET AND THE LOT SIZE IS 3.5 ACRES**
- vi. Architectural renderings to include the number and type of units  
**SEE EXHIBIT C – RENDERINGS OF BUILDING DESIGN**
- vii. Any other information to fully explain the project  
**SEE EXHIBIT D – PROJECT NARRATIVE**

- c. Describe the marketing of the project, clearly identifying the intended market. If the project is speculative, how long is full occupancy expected to take and who will be the property manager?

**THE PROPERTY MANAGER WILL BE PRESBYTERIAN VILLAGES OF MICHIGAN. THE BUILDING IS EXPECTED TO REMAIN OCCUPIED EXCEPT FOR ABOUT 12 UNITS DURING CONSTRUCTION. IT IS EXPECTED THAT THE BUILDING WOULD BE FULLY OCCUPIED WITHIN 60 TO 180 DAYS AFTER CONSTRUCTION COMPLETION**

- d. Briefly describe the ownership and tax information for this project:

- i. State the location or the proposed project to include street address, parcel ID, and the legal description.

**SEE PILOT APPLICATION LEGAL DESCRIPTION**

- ii. Name of the property owner at the time of application.

**MCFARLAN/COURT STREET VILLAGE WEST LIMITED DIVIDEND HOUSING ASSOCIATION LLC**

- iii. If the applicant is not the current owner of record, attach a valid option to purchase.

**THE PROPERTY IS PRESENTLY OWNED BY AN ENTITY 100% OWNED BY THE MCFARLAN CHARITABLE CORPORATION**

- iv. Describe all financing, options, and liens on the property

**THE CURRENT FINANCIAL LIENS INCLUDE A \$100,00 MSHDA MORTGAGE WHICH WILL BE DISCHARGED AT CLOSING, A 6+ MILLION MORTGAGE FOR MHSDA, WHICH HAD BEEN CLEARED BUT NOT RECORDED, AND A \$2+ MILLION DOLLAR LOAN FROM MCFARLAN COMMUNITY FOUNDATION WHICH WILL ALSO BE DISCHARGED AT CLOSING.**

- v. State the current assessed value of the property.

**ZERO**

- vi. Are any assessments currently under appeal? If yes, describe.

**NO**

- e. Provide a detailed development pro forma (Sources and Uses) outlining proposed hard, soft and financing costs associated with the development. Pro forma must also identify all sources of financing and terms, including Applicant equity, construction, and permanent financing, as well as any government assistance. Proposals must contain detailed cost breakdowns.

**SEE EXHIBIT E1 – SOURCES AND USES**

- f. Provide a detailed operating pro forma. This must include all anticipated major revenues and expenses for the full term of the requested PILOT.

**SEE EXHIBIT E2 – OPERATING PRO FORMA**

- g. Provide a detailed schedule of rents and income limits of lessees

**SEE EXHIBIT E3 – RENT SCHEDULE**

h. Provide housing market data to show demand.

**THE BEST MARKET DATA WE CAN PROVIDE IS THAT THE PROPERTY HAS A CURRENT VACANCY RATE OF APPROXIMATELY 3%.**

i. State a proposed timeline for the Project to include:

i. Closing of the loan or contributing financing

**ESTIMATED AT DECEMBER 2022**

ii. First expenditure of funds with regards to the project

**PREDEVELOPMENT FUNDS ARE BEING EXPENDED TO PREPARE THE APPLICATION RIGHT NOW**

iii. Anticipated date construction will begin

**DECEMBER 2022**

iv. Anticipated date of completion

**DECEMBER 2023**

j. Describe any potential conflicts of interest the applicant or any guarantor may have with any City Personnel or City Council members.

**THERE ARE NO CONFLICTS OF INTEREST THAT WE ARE AWARE OF**

k. To receive application bonus points, address the following:

i. Mixed use (PILOT ONLY applies to housing- not commercial SF)

**THIS IS NOT A MIXED-USE PROJECT**

ii. Energy efficiency and green practices

**WE ARE EXPECTED TO OBTAIN THE MAXIMUM NUMBER OF POINTS FROM MSHDA AND MEET THEIR NET ZERO REQUIREMENTS**

iii. Neighborhood and block club outreach (Full list of outreaches done)

**SEE EXHIBIT F – COMMUNITY OUTREACH**

v. External amenities (walk score, proximity to transit, jobs, etc.)

**SEE EXHIBIT G – PROXIMITY TO LOCAL AMENITIES**

l. Include a copy of the completed MSHDA application for Low Income Housing Tax Credits (LIHTC) within thirty (30) days of submittal to MSHDA.

**THE APPLICATION HAS NOT BEEN COMPLETED AT THIS DATE. IT WILL BE PROVIDED AT THE TIME OF COMPLETION.**

(APPLICATION FORM ON NEXT PAGE- ATTACH APPLICATION FORM TO  
THE REQUIRED NARRATIVES AND SUPPORTING DOCUMENTS)



**PAYMENT IN LIEU OF TAXES (PILOT) APPLICATION CITY OF  
FLINT**

**APPLICANT INFORMATION**

<b>ENTITY NAME</b>	Presbyterian Villages of Michigan
<b>REPRESENTATIVES NAME</b>	Al Bogdan, Ethos Consultants Erica Thrash-Sall, McFarlan Executive Director
<b>ADDRESS</b>	26200 Lahser Road, Southfield MI 48033
<b>TELEPHONE NUMBER</b>	313 445-1843
<b>E-MAIL ADDRESS</b>	Bogdanaa@aabds.com; EThrash-Sall@pvm.org

**GUARANTORS INFORMATION**

<b>ENTITY NAME</b>	Presbyterian Villages of Michigan
<b>ENTITY PRINCIPAL</b>	Roger L. Myers, President & CEO
<b>ADDRESS</b>	26200 Lahser Road, Southfield MI 48033
<b>TELEPHONE NUMBER</b>	248 281-2020
<b>E-MAIL ADDRESS</b>	RMyers@PVM.org

<b>ENTITY NAME</b>	700 E. Court Street Village Limited Dividend Housing Association Limited Partnership
<b>ENTITY PRINCIPAL</b>	Brian W. Carnaghi
<b>ADDRESS</b>	26200 Lahser Road, Southfield MI 48033
<b>TELEPHONE NUMBER</b>	248 281-2020

**E-MAIL  
ADDRESS**

bCarnaghi@pvm.org

## **PROJECT INFORMATION**

<b>PROJECT NAME</b>	Court Steet West Village (CSWV)
<b>ADDRESS OF PROJECT</b>	700 East Court Street, Flint MI 48503
<b>PARCEL ID</b>	4118209060
<b>LEGAL DESCRIPTION</b>	<p>Part of Lots 1 through 6 inclusive of the West subdivision of the PLAT OF THE EAST AND WEST SUBDIVISION OF JOHN McNEIL'S CAPITAL LAND ON RESERVATION LOT 7 (of SMITH'S RESERVATION OF ELEVEN SECTIONS AT AND NEAR THE GRAND TRAVERSE OF THE FLINT RIVER), T7N, R7E, according to the recorded plat thereof as recorded in Deed Volume 16, Page 354, Genesee County Records, part of ELDRIDGE REPLAT, more particularly described as follows:</p> <p>Beginning at a point that lies Southerly 27 feet along the former Westerly line of Avon Street from the Southerly line of Court Street as originally platted, and S 58°08'23" W along a line 27 feet Southerly of and parallel to the Southerly line of Court Street as originally platted, a distance of 445.00 feet; thence S 31°37'57" E parallel to the former and present Westerly line of Avon Street 430.00 feet; thence S 58°08'23" W 402.96 feet to the Easterly line of Lapeer Road; thence N 31°48'07" W 264.27 feet; thence N 18°11'53" E 75.82 feet; thence along a curve to the right having a radius of 501.79 feet, a central angle of 39°56'30" and an arc length of 349.80 feet, a chord bearing and distance of N 38°10'08" E 342.72 feet; thence N 58°08'23" E 24.16 feet to the point of beginning. TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS DESCRIBED AS: A 66.00 foot wide strip of land over lands described as part of Lots 1 through 6 inclusive of the West subdivision of the PLAT OF THE EAST AND WEST SUBDIVISION OF JOHN McNEIL'S CAPITAL LAND ON RESERVATION LOT 7 (of SMITH'S RESERVATION OF ELEVEN SECTIONS AT AND NEAR THE GRAND TRAVERSE OF THE FLINT RIVER), T7N, R7E, part of ELDRIDGE REPLAT, which is more particularly described as follows: Beginning at a point that lies Southerly 27 feet along the former Westerly line of Avon Street from the Southerly line of Court Street as originally platted, and S</p>

	<p>58°08'23" W along a line 27 feet Southerly of and parallel to the Southerly line of Court Street as originally platted, a distance of 445.00 feet, and continuing S 31°37'57" E parallel to the former and present Westerly line of Avon Street 430.00 feet; and continuing N 58°08'23" E 46.77 feet to the point of beginning of this description, thence S 31°07'08" E 214.19 feet to the Northerly line of 6<sup>th</sup> Street; thence N 58°52'33" E 66.00 feet along the North line of 6<sup>th</sup> Street; thence N 31°07'08" W 215.04 feet; thence S 58°08'23" W 66.00 feet to the point of beginning.</p> <p>Including and subject to an easement described in that certain Cross Easement Agreement dated December 10, 1992, and recorded January 26, 1993 in Liber 2486 of Deeds, Pages 484-490, Genesee County Records.</p>
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### **DEVELOPMENT TEAM**

<b>APPLICANT PRIMARY POINT OF CONTACT</b>	Al Bogdan, <a href="mailto:bogdanaa@aabds.com">bogdanaa@aabds.com</a> 313 445-1843
<b>ARCHITECTURAL FIRM</b>	Fusco, Schaffer, and Pappas
<b>CONSTRUCTION PROJECT MANAGER</b>	Paragon Construction
<b>GENERAL CONTRACTOR FOR PROJECT</b>	N/A

*Applicant is to attach items a-l as required in the narrative portion of the application.*

- a. Background information
- b. Project description
- c. Project marketing/target market
- d. Ownership description/tax information
- e. Detailed development pro forma
- f. Operating pro forma
- g. Schedule of rents/income levels
- h. Housing market data supporting demand
- i. Proposed project timeline
- j. Conflicts of interest
- k. Application bonus point items
- l. MSHDA application for LIHTC credits





McFARLAN  
VILLAGES

McFARLAN HOME  
COURT STREET  
VILLAGE

August 9, 2021

Khalfani Stephens  
Economic Development Director  
City of Flint  
1101 South Saginaw Street  
Flint MI 48502  
[kstephens@cityofflint.com](mailto:kstephens@cityofflint.com)

Dear Mr. Stephens:

Presbyterian Villages of Michigan (PVM) and the McFarlan Charitable Corporation (McFarlan) have joined together as sponsors to modernize Court Street East Village and Court Street West Village properties located at 800 East Court Street and 700 East Court Street, respectively.

McFarlan, as sole member of the McFarlan/Court Street West LDHA LP is the current owner of the property. Please find attached a copy of our application for a PILOT for Court Street West Village at 700 East Court Street.

#### **Court Street East Village**

The sponsors expect to spend an estimated \$23 million to modernize the 149-unit Court Street East Village located at 800 East Court Street using the Michigan State Housing Development Authority's (MSHDA) 4% low-income housing tax credit bond pass through program partly subsidized by a HUD 202 Capital Advance. By state law, under the HUD 202 program the State of Michigan will reimburse the City of Flint through a stated PILOT paying full property taxes for the HUD 202 units. In other words, if we are awarded the HUD 202 Capital Advance, the State will pay the City of Flint's taxes equal to the full SEV as determined by the City Assessor multiplied by the City millage.

#### **Court Street West Village**

The sponsors expect to spend another estimated \$22 million to modernize the 106-unit Court Street West Village located at 700 East Court Street using the MSHDA 9% low-income housing tax credit competitive program. As part of the renovation the sponsors expect to convert several of the two-bedroom units to one-bedroom units and studio apartments, thereby increasing the number of units to 119. The converted units will be primarily used to provide affordable assisted living accommodations to 35 Medicaid eligible persons, including a secured memory support home and gardens for 11 persons. To apply for the LIHTC, MSHDA requires us to obtain a PILOT from the City for as long as there is a Regulatory Agreement in place requiring the owner to maintain the units at affordable rents. The PILOT is also necessary to help assure the economic viability of the development.



McFARLAN  
VILLAGES

McFARLAN HOME  
COURT STREET  
VILLAGE

It is, with this mind that the development team requests the City of Flint to provide the Court Street West Village located at 700 East Court Street a PILOT equal to 4% of the total rental revenue, net of vacancy and utility costs, for the affordable units for the term of the new Regulatory Agreement to be issued by MSHDA. PILOT Application plus Exhibits are attached.

We will be pleased to meet with you, Kevin Miller, City staff, and the City Council in Committee and when meeting as regular meetings to discuss the program in more depth and to answer all questions. We feel that the project will be extremely beneficial to the City's seniors by permitting them to age in place and to avoid a nursing home stay and generate City tax revenue. It is vital that we receive your approval prior to October 1, 2021, on which date we file with MSHDA for the 9% LIHTC competitive credits.

Sincerely yours,

*Brian W. Carnaghi*

Brian Carnaghi  
Vice President  
Presbyterian Villages of Michigan

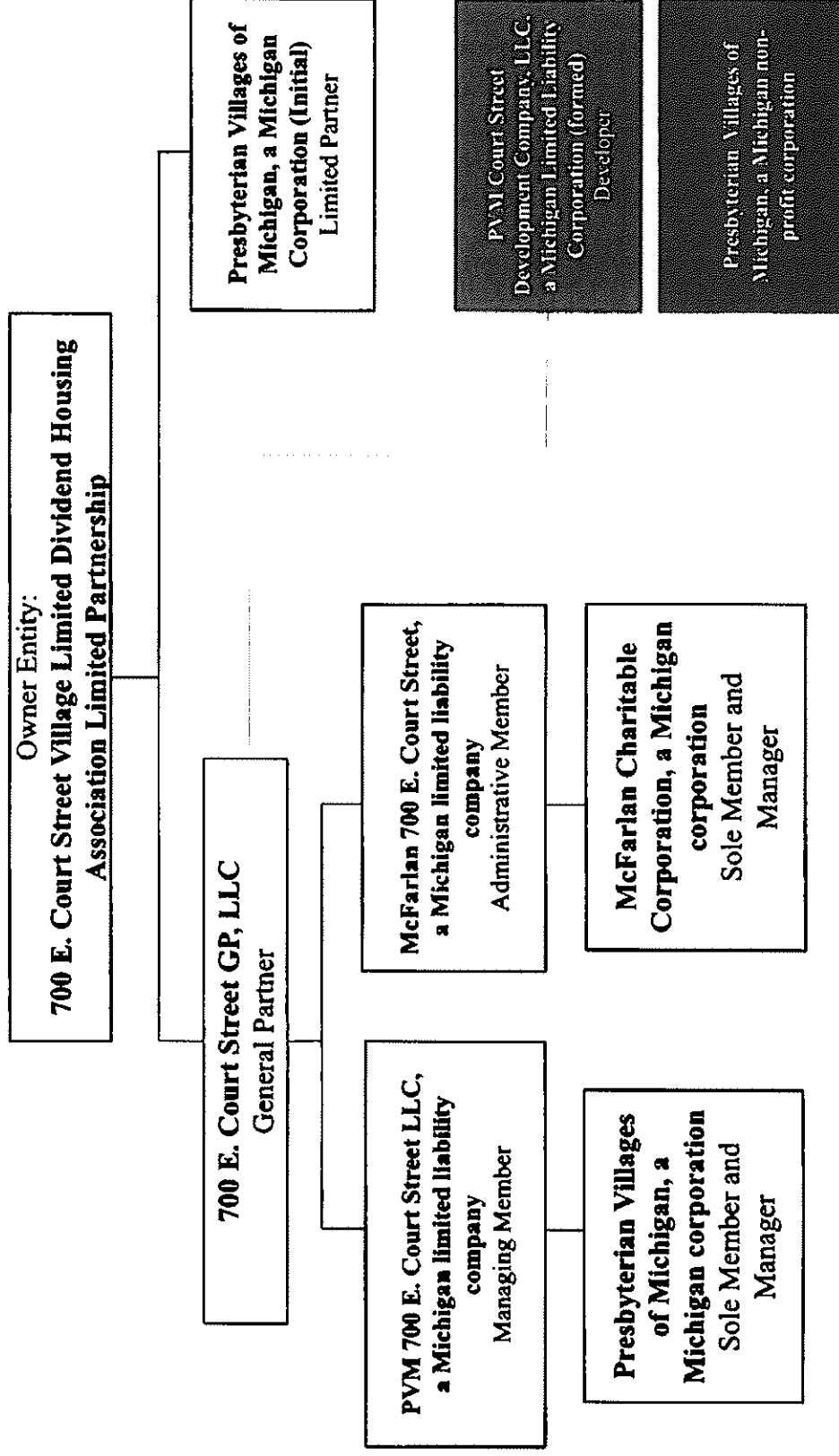
*Erica Trash-Sall*

Erica Trash-Sall  
Executive Director  
McFarlan Charitable Corporation

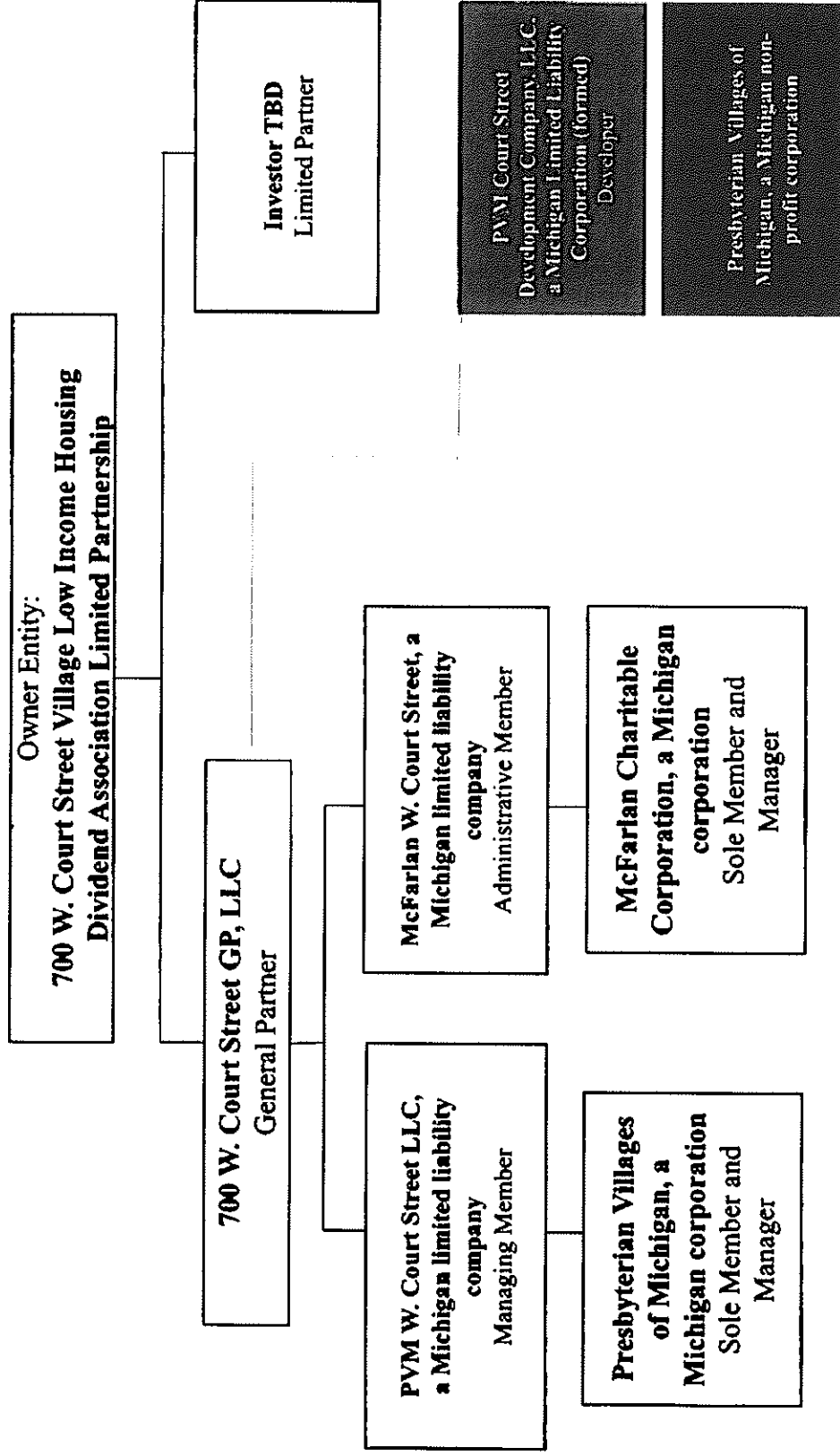
Cc: Kevin Miller  
Councilwoman Monica Galloway  
Suzanne Wilcox

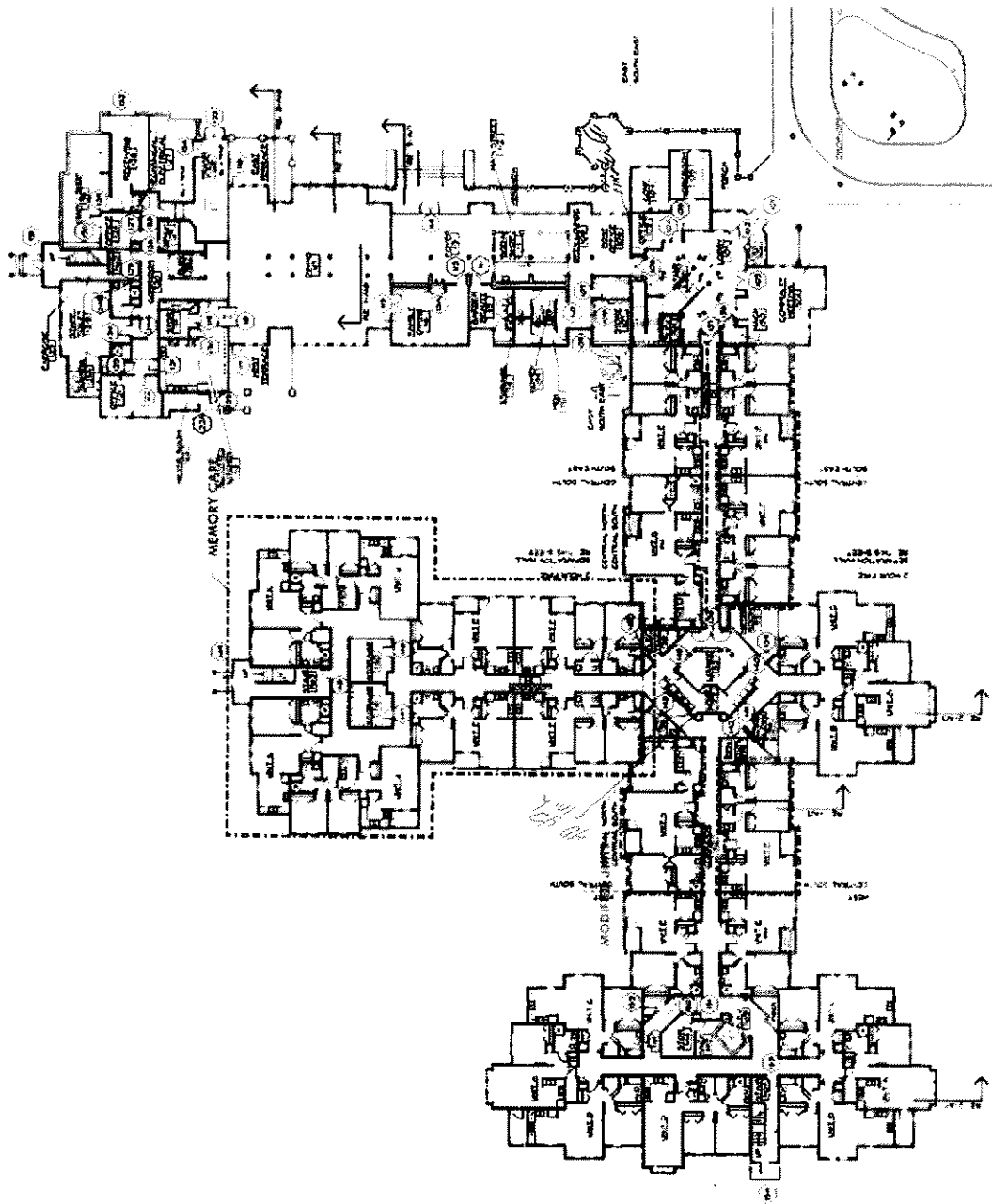
Attachment:  
700 East Court Street PILOT Application including Exhibits

**ORGANIZATIONAL STRUCTURE FOR 700 EAST COURT STREET OWNER ENTITY  
PRIOR TO FINANCIAL CLOSING**



ORGANIZATIONAL STRUCTURE FOR MCFARLAN COURT STREET OWNER ENTITY  
FOLLOWING FINANCIAL CLOSING





**1ST FLOOR BUILDING PLAN (EXISTING)**

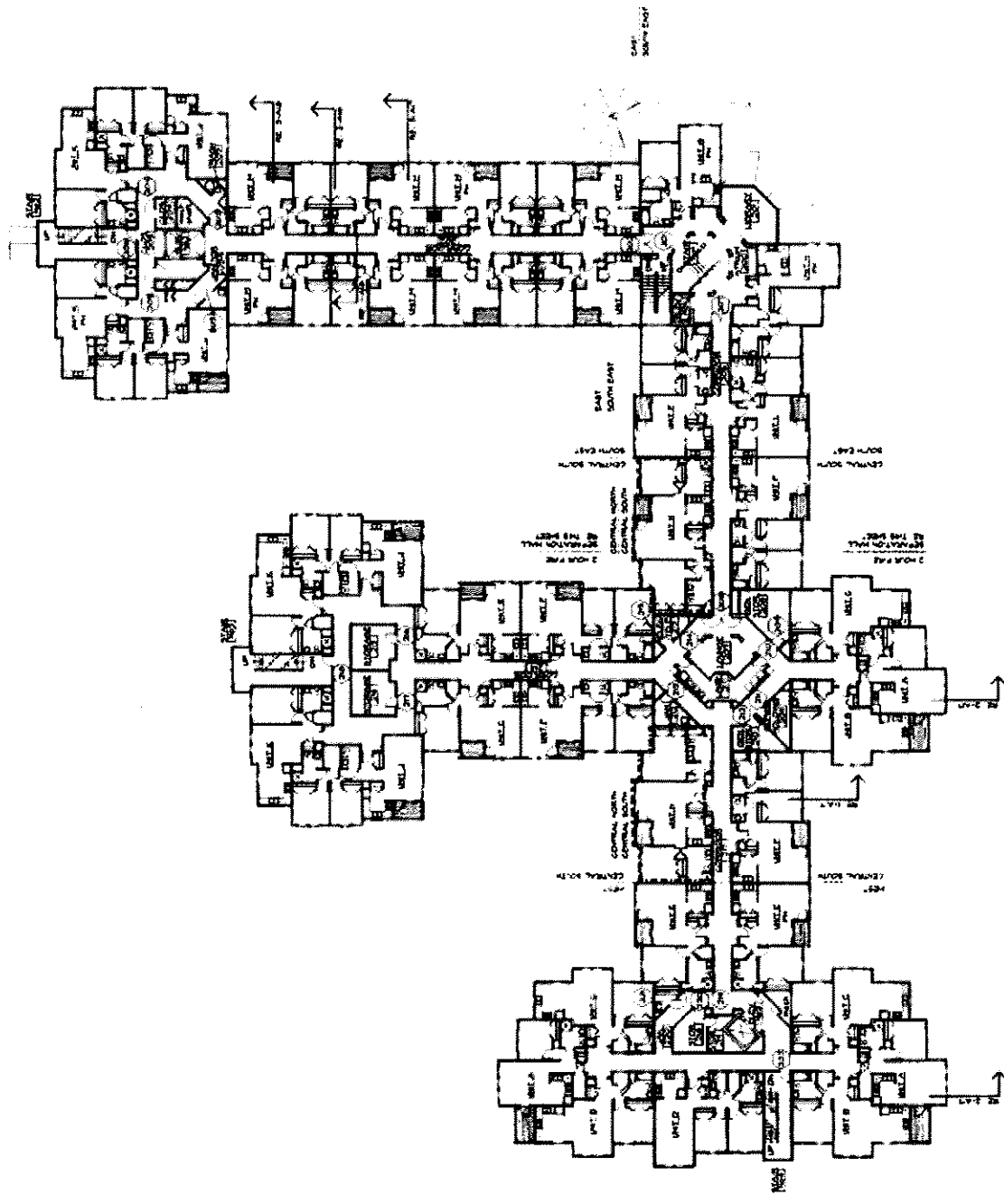
1/4" = 1'-0"

3/2/01 S\*

**700 E. COURT RENOVATION**  
PRESBYTERIAN VILLAGES OF MICHIGAN  
FLINT

**FUSCO, SHAPIRO & PARTAS, INC.**  
ARCHITECTS & PLANNERS  
340 E. NINTH STREET, SUITE 200  
ANN ARBOR, MI 48106-1000  
WWW.FUSCO-SHAPIRO.COM

9716.21




**2ND FLOOR BUILDING PLAN (EXISTING)**  
 1/16" = 1'-0"

38,279 S.F.

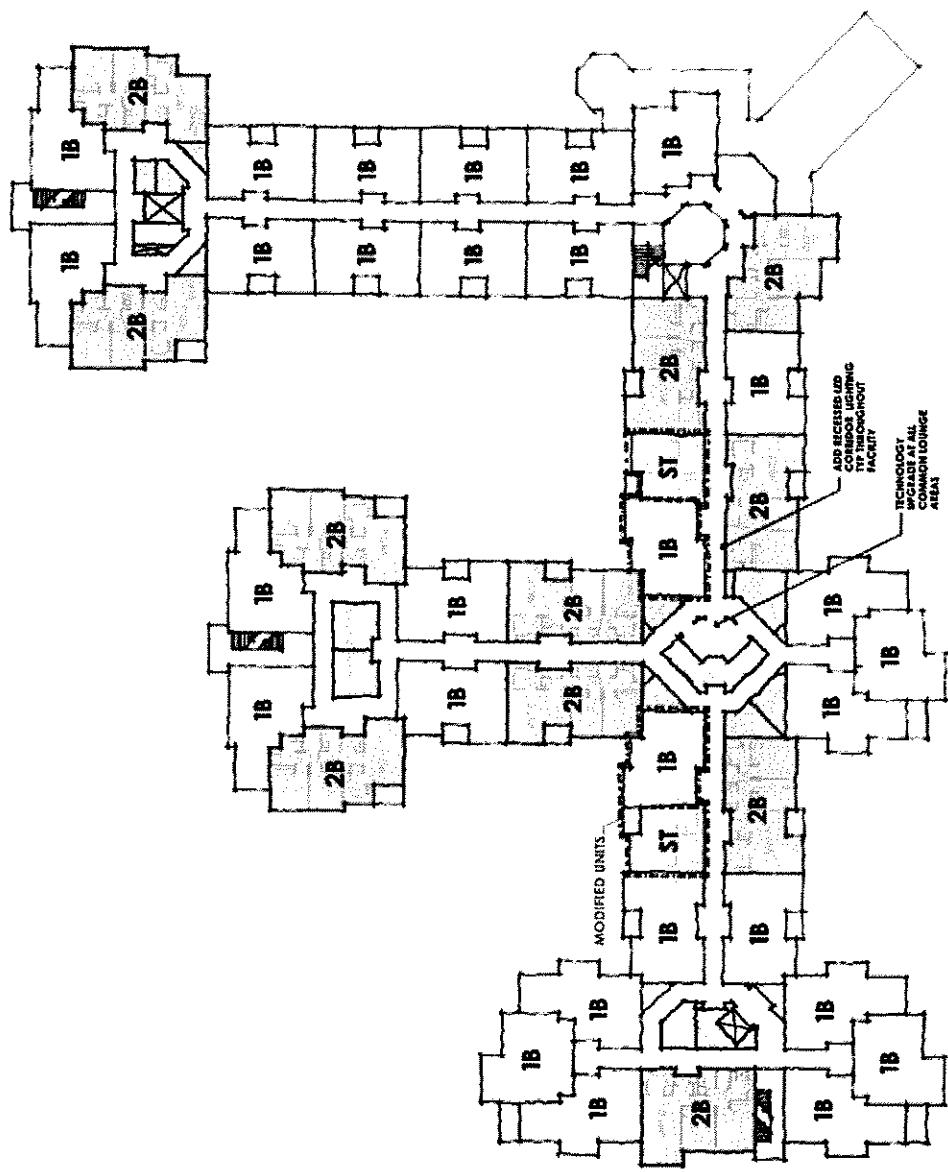
**700 E. COURT RENOVATION**  
 PRESBYTERIAN VILLAGES OF MICHIGAN  
 FLINT, MICHIGAN

FUSCO, SHAFER & PAPPAS, INC.  
 ARCHITECTS & PLANNERS  
 1000 E. MICHIGAN, SUITE 200  
 ANN ARBOR, MICHIGAN 48106-1500  
 PHONE 313.963.1100 FAX 313.963.1101  
 WWW.FUSCO-SHAFFER-PAPPAS.COM

07.14.21



N  
1/16" = 1'-0"  
**1ST FLOOR BUILDING PLAN- 35 UNITS**  
37701 SF



- KEY:
- 2 BEDROOM - 1 1/2 BATH
  - 1 BEDROOM - 1 BATH
  - STUDIO
  - COMMONS/UTILITY
  - MODIFIED UNITS

**700 E. COURT RENOVATION**  
 PRESBYTERIAN VILLAGES OF MICHIGAN  
 FLINT MICHIGAN

**PSD FUSCO,**  
**SHAFER &**  
**PAPPAS, INC.**  
 ARCHITECTS & PLANNERS  
 550 E. SENECA STREET  
 ANN ARBOR, MICHIGAN 48106  
 734.761.1100  
 WWW.PSD-FUSCO.COM

07.14.21

SHEET 2 OF 2

**2ND FLOOR BUILDING PLAN (3RD SIMILAR) - 42 UNITS**  
 1/16" = 1'-0" 38,279 S.F.



## E1 – 700 East Court Street PROJECT NARRATIVE

The McFarlan Court Street West Village (CSVW) property is located at 700 East Court Street, Flint MI 48503, just east of the Court Street ramp exit off I-475. It is the western building of the Court Street Village Senior Residential Complex. Court Street is the entrance to downtown Flint with City Hall on the corner of Court and Saginaw Street. Saginaw is a main street that connects both the northern and southern suburbs to the heart of the city. Court Street Village West is in the heart of Flint's College Cultural Center in the Fairfield Village Neighborhood in Flint's 7<sup>th</sup> Ward. Community assets include Mott Community College, University of Michigan-Flint, Sloan Science Center, Flint Art Museum, Flint Institute of Music, and the Whiting Auditorium. McFarlan Court Street Village West (CSVW) is less than a mile from the Flint Farmer's Market, recognized as one



the top ten public markets in America. Four bus lines are within a block of the Village and when combined with the city's dial a ride and the in-house van it puts the entire City at its front door. Residents can easily travel to the appointments or to do shopping.

CSVW is a three story, 106-unit, senior residential building located adjacent to its sister Court Street East

Village Building, a 149-unit senior property. CSVW was originally developed as a Low-Income Housing Tax Credit development and completed in 1992. It was purchased by the McFarlan Charitable Corporation from MSHDA in 2011 to prevent the buildings from going into foreclosure. Presbyterian Villages of Michigan (PVM) began to manage the property for the McFarlan



Charitable Corporation in 2016. There is a \$100,000 non-serviceable loan from MSHDA on the property that will be forgiven if CSVW keeps 40 percent of the units as affordable. The debt and current reserves will be transferred to the new entity.

CSVW amenities will include amenities include a

commercial kitchen, private dining area, wellness and exercise area, personal emergency response system, window coverings, commissary and convenience store, mail room, barber and beauty salon, library, internet access, porches, walking paths, balconies in some units, walk-in closets, storage space, covered drive thru, and a memory support garden. There is also significant green space all around the building for its Walking Club. After room conversions it will offer 24 studios, 73 one-bedrooms, and 22 2-bedroom units. The eleven barrier free units in the present building will; be expanded to 12, it has and will have a broad range of supportive services.

#### DESCRIPTION OF MODERNIZATION OF 700 EAST COURT STREET

CSVW is one component in a transformation of McFarlan Villages into a continuum of housing and services for seniors, with the vision of replicating the Thome Rivertown Neighborhood campus in Detroit, Michigan. All apartments will be "visitable" as defined by HUD with a no step entry, barrier free doors from the hall to the ½ bathroom or bathroom, and electrical switches at reachable heights. Sixteen apartments will be barrier free. Thirty-five apartments of Affordable Assisted Living will be created with 11 dedicated to memory support to serve residents safely and securely with dementia and Alzheimer's Disease. CSVW will partner with Valley Area Agency on Aging (VAAA) as the MI Choice waiver agent in Genesee County. Additionally, CSVW has an established a relationship with

Ascension Michigan PACE (Program for All Inclusive Care for the Elderly), who would provide comprehensive care for PACE participant who are residents. Evergreen Home Care will be the Home Care Agency provider. These are not new partnerships for McFarlan, as they have been serving the residents in the McFarlan communities for more than five years.

Court Street West Village Data	
Address =	700 East Court Street, Flint MI 48503-6220
County =	Genesee County
Parcel ID =	4118209060
Census Tract =	26049002900
Site Area =	3.5 acres
Building Gross Area =	114,259 square feet
Building Height =	3 Floors (existing)
Parking Required by Zoning =	60
Present Parking on Site =	69
Present Zoning =	C-1 Multit-family Walk-up Apartment District
Projected Zoning =	C-1 Multit-family Walk-up Apartment District

Apartment Configuration Before Rehabilitation							
Apt. Type	1 bath			1 1/2 bath	2 bath	Total	handicapped units
	Non AAL	Memory	AAL				
Studio	0	0	0	0	0	0	11
1 bdrm	69	0	0	0	0	69	
2 bdrm	0	0	0	30	7	37	
<b>Total</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>7</b>	<b>106</b>	<b>11</b>
Apartment Configuration After Rehabilitation							
Apt. Type	1 bath			1 1/2 bath	2 bath	Total	handicapped units
	Non AAL	Memory	AAL				
Studio	4	7	13	0	0	24	12
1 bdrm	58	4	11	0	0	73	
2 bdrm	0	0	0	22	0	22	
<b>Total</b>	<b>62</b>	<b>11</b>	<b>24</b>	<b>22</b>	<b>0</b>	<b>119</b>	<b>12</b>

The Affordable Assisted Living (AAL) will consist of a fully appointed unit that includes a bedroom, sitting area, kitchen or kitchenette, and accessible bathroom. Most of the units will have access to Section 8 project-based vouchers, through the Flint Housing Commission and enrolled in MI Choice Waiver or PACE for home care services. Through the Waiver or PACE, residents will receive assistances with activities of daily living (ADLs), housekeeping, and laundry. CSVW will provide dining services to the residents to include breakfast, lunch, dinner, and snacks.

The residents of the AAL will have access to all the amenities on the campus including a primary care federally qualified health center located in the adjacent Court Street Village East property, robust wellness-activities program (exercise, social engagement, gardening arts and crafts and educational courses, and service coordination). Residents will be able to keep suitable pets. CSVW understand that pets enhance to the psycho-social well-being of older adults, especially those who may delay care because they do not want to be separated from their pet.

The modernization of CSVW includes converting some of the existing two-bedroom units to one-bedroom and studio units. The conversion of the first-floor units will encompass the reconfiguration of the existing 2-bedroom units by converting them into a combination of studio and/or 1-bedroom units. Support functions will be developed in areas occupied by storage rooms and within former unit footprints. The existing building utilities, kitchen, and common areas will be renovated to meet the demand of the conversion. Units on the first floor will be reconfigured with a kitchenette, with meal service to be provided in the main dining room for all meals. The memory support small house will have a warming kitchen and a dining space within the secure suite. Independent living units on the 2<sup>nd</sup> and 3<sup>rd</sup> floors will have full kitchens or kitchenettes.

The exterior and site will also be upgraded. Existing wooden decks and supporting structures and trims will be replaced. Paving and parking improvements will be made. The walking path will be improved or repaired as required. Exterior masonry and siding will be repaired and painted.

Currently, there is an excess of common area space, which does not support the type of programming currently available or plan to have in the future. The present kitchen will be replaced by professionally designed commercial kitchen that can serve up to 270 meals per day to both the residents of our AAL, independent living and other senior living buildings nearby like Richert Manor, Kearsley Manor and McFarlan Home. The dining room will be modernized to make dining service an easy and enjoyable experience for our residents and guests. There will be a game room to accommodate older adults across three generations. There will be a theater space, an exercise room and a space for arts and crafts. The walkways will be re-paved to facilitate more participation in the walking club. A courtyard memory garden will provide a safe enclosed outdoor space for the AAL residents

#### **Electronic Communication Availability / Accessibility**

PVM's Department of Technology (DOT) will build out the necessary "wiring" to implement Wi-Fi throughout the building which will provide the "backbone" for their residents to receive basic internet access to email, social media, home voice assistants and other internet of thing's devices (Smart Plugs, lights). PVM will be providing every resident a Google Nest Smart Home Voice Home Assistant, which will allow the resident to communicate to the internet via voice commands. The home assistant will also voice command control smart switches, plugs and lights within their apartment if purchased separately. Voice assistants can set alarms, display, and playback reminders, play games

(trivia), listen to music, and watch videos, play back daily news, weather. Palcare emergency devices will be provided to every resident. This is a Personal Emergency Response System (Wireless watch or necklace-water proof that resident can use to send an emergency alert by the push of a button). Two VR headsets will be purchased offering Virtual and Augmented Reality experiences. The design is to enhance the wellness space with this virtual experience which will help reduce stress and allow for powerful and fun virtual exercising.

#### **Relocation**

None of the tenants will have to be relocated from the building during rehabilitation. Prior to construction, enough apartments will be left vacant from normal turnover to permit relocation of tenants in the building. It is presently estimated that approximately 12 units will be used to house tenants during the construction period. The project will comply with all aspects of HUD Chapter 3 temporary relocation planning.

#### **Zoning and Site Plan Approval**

CSVW will continue to be used as a residential dwelling for older adults, so no zoning changes are required. The only site work to be performed is repair and maintenance of the present site. No site plan approval will be necessary. The 69 parking spaces meets the current zoning requirements of ½ space per unit.

#### **Rehabilitation Outline by Fusco Shaffer & Pappas**

##### **Site Work**

1. Mill and cap existing parking lot with new striping including accessible aisles.
2. Replace existing concrete at service yard.
3. Repair existing asphalt walk.
4. Repair existing concrete walks.
5. Replace existing screen fence with new screen fence.
6. Provide pricing to examine and trim existing trees on site.
7. Replace existing carport structures and associated lighting.
8. Repair drive canopy structure finishes and gutters where damaged to match existing.
9. Replace existing HID light fixtures and poles with LED light fixtures. Repair/replace base as required.
10. Repair/replace existing walking path around the building.

##### **E. Building Exterior**

1. Remove and replace existing asphalt roof, fascia, and trim on main building and maintenance garage.
2. Construct new memory garden for Assisted Living Memory Care residents with 8' high, non-climbable prefinished aluminum picket fencing with intermediate block/brick piers on concrete footings. Block/brick to match existing building. (+/- 9 piers)
3. Replace balcony decking, rails, and supports at all upper floor units.
4. Repair damaged framing as required.
5. Replace damaged decking rails and supports at public areas.
6. Repair / replace concrete patios at first floor units. Replace exterior doors and frames.

7. Replace windows.
8. Repair damaged siding and fascia.
  - A. Provide alternate to replace siding and fascia.
9. Replace downspouts and gutters.
10. Provide a complete exterior masonry survey for the building. Repair damaged cmu and tuck point missing mortar.

**F. Building Interior: Common Spaces**

1. Provide commercial kitchen equipment, ventilation, and MAU. Rework electrical and mechanical to accommodate new unit layout.
2. Replace finishes in existing Dining Room.
3. Reconfigure first floor suites to accommodate new unit layout. Provide new rated unit entries through existing load bearing corridor wall.
  - 24 units non-licensed assisted living
  - 11 non-licensed memory care units (greenhouse model)
4. Provide new secure access points to MC unit.
5. Reconfigure space in MC unit to accommodate required staff / resident support space.
6. Reconfigure 2-bedroom, 2-bathroom upper floor units to accommodate new units.
7. Replace existing floor finishes and base throughout building.
8. Replace existing ceiling tiles throughout facility.
9. Remove existing stair in lobby and reconfigure along existing run.
10. Provide allowance for new furniture.
11. Provide an allowance to enclose third floor atrium.
12. Replace existing main entry doors with automatic sliding doors.
13. Common Laundry facilities space.
  - a. Reconfigure existing Laundry Room and adjacent Lounge.
14. Revise common areas to include TV, exercise, game room, computer, and arts and craft room.
15. Include a maintenance and tool area.
16. Provide allowance to replace ceiling tiles.
17. Include an area for a theater and a business center.
18. Reconfigure commissary store, a new cafe, expanded salon and wellness (fitness) room.
19. Interior common space to receive new flooring (LVT) and furnishings.
20. Create a new mailroom with additional parcel lockers.
21. Provide WIFI throughout building.
22. Common hallways to be refurbished.
  - a. Repair and repaint walls and trim.
  - b. Remove existing flooring and base. Install new LVT flooring and dimensional resilient base throughout all corridors.
  - c. Remove existing ceiling grid pads and lights. Install new ceiling 2x2 grid, ceiling pads and LED light fixtures.
  - d. Provide alternate to keep 2x2 ceiling grid with new ceiling tiles.

- e. Remove existing lighting. Install new and increased amount of recessed LED lights. Allow for (1) light for every 6' O.C. min plus additional accent lighting at lounges, nodes, artwork, and accent areas.
- f. Remove existing wall sconces. Provide replace (1) LED wall mounted sconce at each unit entry
- 23. Remove and replace all existing interior Common Area doors and frames and hardware with new stained wood solid core doors and hollow metal frames (provide rated doors, frames, and hardware where applicable)
- 24. Remove and replace all existing exterior Common Area doors and frames and hardware with new insulated painted galvanized hollow metal doors and frames
- 25. Upgrade public bathrooms
  - a. Demolish and replace existing fixtures, flooring, and accessories.
  - b. Patch and repair walls and repaint.
  - c. Provide tile wall finish full height along wet walls.
  - d. Install new partitions, water closets, urinals, lavatories, ADA compliant counter with manufactured stone top and splashes, mirror(s), and all required accessories.
- 26. Upgrade elevator finishes and replace door operators.

#### **G. Building Interior: Common Spaces Mechanical, Electrical and Plumbing**

##### **1. Mechanical:**

- a. Replace existing makeup air units.
- b. Replace existing AHU in the crawl space.
- c. Repair existing fan coil units.
- d. Replace rooftop mounted powered exhaust.

##### **2. Electrical:**

- a. Replace existing light fixtures with LED light fixtures.
- b. Improve lighting in common areas and corridors with LED light fixtures.
- c. Modernize elevator machine room equipment.
- d. Install missing breakers from panels.
- e. Provide fire alarm strobes.
- f. Repair building camera security system.

##### **3. Plumbing:**

- e. Provide water shut off valves for supply lines at each unit.
- f. Replace existing fire pump and controller
- g. Confirm cause of and repair leaking fire sprinkler lines.
- h. Replace inline Grundfos pumps and taco circulators
- i. Replace base-mounted service and chilled water pumps.
- j. Replace DHW generation equipment.
- k. Replace inline circulation pumps.

#### **H. Building Interior: Dwelling Units**

1. All interior doors and frames and hardware are to be replaced with stained wood doors and trim.

A. Replace bi-fold doors with stained wood swinging doors and frames in existing openings.

2. Revise mail shelf at accessible unit entry doors.

3. All walls in units to be repaired and painted throughout.

4. Replace screen door to balcony.

A. Adjust thresholds at accessible units.

5. Demolish all kitchen and bathroom cabinets and vanities and install new.

6. All Kitchen countertops to be replaced with laminate tops on water resistant board with new sinks and faucets.

A. Install fire stop canisters at range hoods.

7. Replace all appliances with new energy star appliances. (Note: 1st floor units will be renovated to include a kitchenette in lieu of a full kitchen)

8. Revise walls to new configuration.

9. All flooring and base trim throughout the unit be replaced. Install CPT living room and bedroom. Provide alternate for LVT in living areas

10. Install vinyl plank and resilient in bathrooms kitchen and entry.

11. All window treatments to be replaced.

12. All unit entry doors and frames to remain.

13. All bathrooms to be fully renovated

## **I. Building Interior: Dwelling Unit Mechanical, Plumbing and Electrical**

### **1. Mechanical:**

a. Install new exhaust fan in bathroom(s).

b. Reconfigure heating piping to accommodate reconfiguration of units.

c. Replace mechanical unit.

### **2. Electrical:**

a. Install new emergency call pull cord in Assisted living units.

b. All electrical devices to be replaced.

c. All electrical cover plates to be replaced. Provide GFCI outlets as required by code.

d. All lighting fixtures to be replaced with LED fixtures.

e. Install new fire/smoke detectors for the hallways & corridor.

f. Provide a new video intercom system.

g. Provide new thermostats.

h. Provide motion activated night lighting from bedroom and into bathrooms

### **3. Plumbing:**

a. Provide new  $\frac{1}{4}$  turn ball type shut off valves at all plumbing fixtures.

b. Adjust sprinkler heads as required to conform to new ceiling configurations.

c. Reconfigure plumbing fixture locations in new/existing units to accommodate visitability.

d. Install roll in shower.

e. New fixtures and faucets throughout facility.

Development P/M-Court Street Village West  
 Financing Other  
 MSHDA No. TBD  
 Step Notice of Intent to Apply  
 Date 07/30/2021  
 Type Acquisition/Rehab

## Instructions

### TOTAL DEVELOPMENT COSTS

	Per Unit	Total
<b>Acquisition</b>		
Land	4,202	500,000
Existing Buildings	17,847	2,100,000
Other:	0	0
<b>Subtotal</b>	<b>21,849</b>	<b>2,600,000</b>
<b>Construction/Rehabilitation</b>		
Off Site Improvements	0	0
On-site Improvements	2,357	280,460
Landscaping and Irrigation	840	100,000
Structures	98,587	11,731,832
Community Building and/or Maintenance Facility	0	0
Construction not in Tax Credit basis (i.e. Carports and Commercial Space)	0	0
General Requirements	5,603	666,738
% of Contract	5.45%	Within Range
Builder Overhead	1,668	222,246
% of Contract	1.72%	Within Range
Builder Profit	5,603	666,738
% of Contract	5.08%	Within Range
Permits, Bond Premium, Tap Fees, Cost Cent.	2,148	255,582
Other: Low Voltage Contract	956	113,754
<b>Subtotal</b>	<b>117,961</b>	<b>14,037,350</b>
<b>15% of acquisition and \$15,000/unit test:</b>		<b>met</b>
<b>Professional Fees</b>		
Design Architect Fees	4,718	561,494
Supervisory Architect Fees	0	0
Engineering/Survey	210	25,000
Legal Fees	840	100,000
<b>Subtotal</b>	<b>5,769</b>	<b>686,494</b>
<b>Interim Construction Costs</b>		
Property & Casualty Insurance	504	60,000
Construction Loan Interest	1,559	185,500
Title Work	168	20,000
Construction Taxes	176	21,000
Other:	0	0
<b>Subtotal</b>	<b>2,408</b>	<b>286,500</b>
<b>Permanent Financing</b>		
Loan Commitment Fee to MSHDA	0	0
Other: Loans Fee @ 2% + Construction Loan Fee @ 1.5%	1,731	205,948
<b>Subtotal</b>	<b>1,731</b>	<b>205,948</b>
<b>Other Costs (In Basis)</b>		
Application Fee	0	0
Market Study	55	6,500
Environmental Studies	294	35,000
Cost Certification	126	15,000
Equipment and Furnishings	4,622	550,000
Temporary Tenant Relocation	1,050	125,000
Construction Contingency	11,796	1,403,735
Appraisal and C.N.A.	92	11,000
Other:	0	0
<b>Subtotal</b>	<b>18,036</b>	<b>2,146,235</b>
<b>Other Costs (NOT In Basis)</b>		
Start-up and Organization	210	25,000
Tax Credit Fees (based on 2017 QAP)	92,500	Within Range
Compliance Monitoring Fee (based on 2017 QAP)	427	50,825
Marketing Expense	84	10,000
Syndication Legal Fees	504	60,000
Rent Up Allowance	0	0
Other:	0	0
<b>Subtotal</b>	<b>2,803</b>	<b>238,325</b>

	Per Unit	Total
<b>Project Reserves</b>		
Operating Assurance Reserve	2,859	340,214
Replacement Reserve	700	83,300
Operating Deficit Reserve	0	0
Rent Subsidy Reserve	0	0
Syndicator Held Reserve	0	0
Rent Lag Escrow	0	0
Tax and Insurance Escrows	0	0
Other:	0	0
<b>Subtotal</b>	<b>3,559</b>	<b>423,514</b>
<b>Miscellaneous</b>		
Deposit to Development Operating Account (1MGRF Not Required)	0	0
Other (Not in Basis):	0	0
Other (In Basis):	0	0
Other (In Basis):	0	0
<b>Subtotal</b>	<b>0</b>	<b>0</b>
<b>Total Acquisition Costs</b>	<b>21,849</b>	<b>2,600,000</b>
<b>Total Construction Hard Costs</b>	<b>117,961</b>	<b>14,037,350</b>
<b>Total Non-Construction ("Soft") Costs</b>	<b>33,504</b>	<b>3,987,016</b>
<b>Developer Overhead and Fee</b>		
Maximum	1,500,000	1,500,000
7.5% of Acquisition/Project Reserves	12,605	5% Attribution Test
15% of All Other Development Costs	185,919	met
<b>Total Development Cost</b>	<b>185,919</b>	<b>22,124,366</b>
<b>TOTAL DEVELOPMENT SOURCES</b>		
MSHDA Permanent Mortgage	0	0
Conventional/Other Mortgage	19,726	2,347,405
Equity Contribution from Tax Credit Syndication	112,174	13,348,665
MSHDA NSP Funds	0	0
MSHDA HOME or Housing Trust Funds	0	0
Mortgage Resource Funds	0	0
Other MSHDA	0	0
Local HOME	0	0
Income from Operations	0	0
Other Equity	0	0
Transferred Reserves:	840	100,000
Other: Sellers Note	10,924	1,300,000
Other: Sponsor Note(s)	36,975	4,400,000
Deferred Developer Fee	5,280	628,296
<b>Total Permanent Sources</b>	<b>22,124,366</b>	<b>22,124,366</b>
<b>Sources Equal Uses?</b>		
Surplus/(Gap)		<b>Balanced</b>
<b>3rd Party Construction Loan</b>	<b>89,076</b>	<b>10,600,000</b>
Construction Loan Rate	3.500%	
Repaid from equity prior to final closing		<b>10,600,000</b>



## Development FVN-Court Street Villages West

Financing Other		MSKIDA No. 18D																			
Step Notice of Intent to Apply		Date 07/30/2021																			
Type Acquisition/Rehab																					
Future Interest																					
Stations in Yr																					
Initial Inflation																					
1.0% 5 2.0%																					
1.0% 5 2.0%																					
Total Project Revenue																					
Income																					
Annual Rental Income																					
Annual Non-Rental Income																					
Total Project Revenue																					
Expenses																					
Vacancy Loss																					
Management Fee																					
Administration																					
Proposed Fuel																					
Common Electricity																					
Water and Sewer																					
Operating and Maintenance																					
Real Estate Taxes																					
Real Estate Loss of Taxes (PILOT)																					
Insurance																					
Replacement																					
Other																					
Subtotal Operating Expenses																					
Debt Service																					
Debt Service Part A																					
Debt Service Conventional/Other Financing																					
Total Expenses																					
Cash Flow/( deficit)																					
Debt Service Part A																					
Debt Service Part A Loan																					
Debt Coverage Ratio on Part A Loan																					
Debt Coverage Ratio on Conventional/Other Financing																					
Interest Rate on Expenses																					
Deferred Developer Fee Analysis																					
Initial Balance																					
Dev Fee Paid																					
Ending Balance																					
Repeat in Yr																					

**Stimulus**

**Rental Income**

Gross Rent Potential	882,156
Average Monthly Rent	618
Gross Square Footage	

[illegible]

## **EXHIBIT F - COMMUNITY OUTREACH**

The following are organizations that have a strong working relationship with the present the codevelopers managers of Court Street Villages and have offered their full support for the modernization of both 700 and 800 East Court Street properties:

1. Alzheimer's Association
2. Ascension PACE
3. Brennan Senior Center
4. Communication Access Center
5. Disability Network
6. Evergreen Health Services
7. Family Services Agency
8. First Presbyterian Church
9. Flint Housing Commission
10. GCCARD-Commodities Food Program
11. Genesee Community Health Center
12. Genesee Health System
13. Hamilton-McFarlan Senior Health Center
14. McFarlan Home Assisted Living
15. Mott Community College
16. My Brother's Keeper
17. OLHSA
18. Shelter of Flint
19. Training and Treatment Innovations
20. University of Michigan-Flint
22. Valley Area Agency on Aging
23. Wellness HIV Aids

The following organizations have offered their support for the management and redevelopment of the Court Street Villages.

- 1 Community Foundation - Greater Flint
- 2 Blue Cross/Blue Shield/ Blue Care Network
- 3 Congressman Daniel E Kildee
- 4 Councilwoman Monica Galloway - Ward 7
- 5 Genesee Community Health Center
- 6 Michigan Department of Health & Human Services Aging & Adult Services
- 7 Leading Age Michigan

[REDACTED]

[REDACTED]

[REDACTED]

### Neighborhood and Context

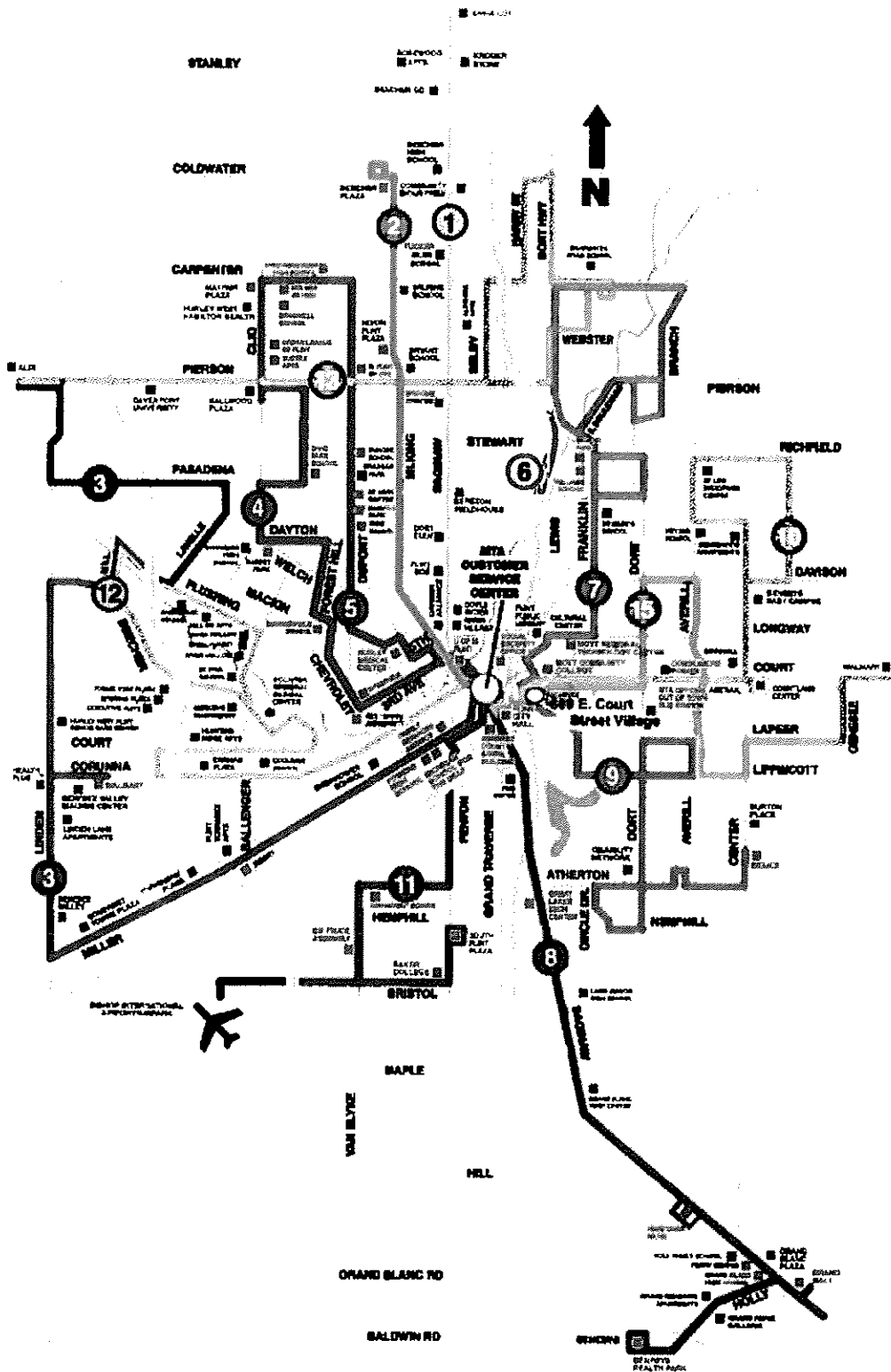
700 E. Court Street Village is located in the hub of an extensive mass transportation market that caters to seniors, disabled and poor folks. The Mass Transportation Authority (MTA) provides reliable public transportation services throughout Genesee County and it runs 15 Primary Routes in the City of Flint. All the primary routes are connected through the MTA Customer Service Center, i.e. MTA Central Station. The Central Station is a 15-minute walk from Court Street, or a short bus ride away. The bus schedule indicates that the total time to travel from the MTA Customer Service Center to the last stop for the four lines that stop next to 800 East Court Street is less than one-half hour. Essentially every stop on each of the lines is less than one-half hour away.



There are three bus routes that stop in front of the building, Routes 7, 10, and 15. In addition, Route 9 stops a block away. See bus stop locations on the following page. Each full route is equal to or less than ½ hour, and each route stops at 10 different locations. Included in this exhibit are maps of the following:

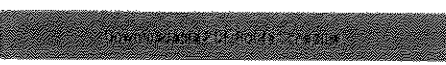
1. Main Service Map – Shows Primary Amenities within the 30 Minute Bus Route System
2. Route 7 – Franklin
3. Route 9 – Lapeer
4. Route 10 – Richfield Road
5. Route 15 – Dort Averill

# System\_Wide\_map



\\msf\ledw\OneDrive\Desktop\Flint MTA system-wide-map.svg

陳永發 著



3. Fitchert Manor
2. YMC&A
3. University of Michigan-Flint
4. Hott Community College
5. Hott Regional Tech Center
6. Hurley-Genevys Cancer Center
7. St. Mary's Parish Center
8. Whisley Park
9. Carpenter Rd. Elementary
10. Carpenter Rd. Apartments

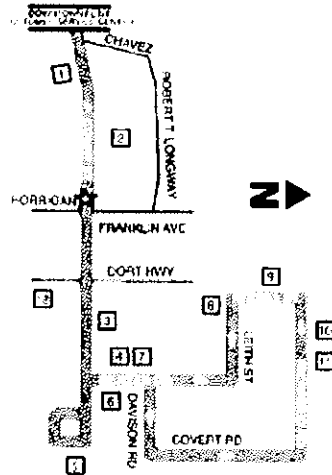
### Points of interest

1. STAYEddy, s, House Outpatient
2. Aven Apartments
3. Forward Station
4. Food Bank of Eastern Michigan
5. Quinn Chapel AME Church
6. Disability Network/Dart Mnt
7. Barton Library
8. Meyer
9. Bart Federal Agency
10. Scott Elementary

Take to the F at City Farmers' Market. Take a train, southbound  
12 to the Downtown Transit Center.

## Primary Route 10 - Richfield Road

Downloadable PDF Route Schedule



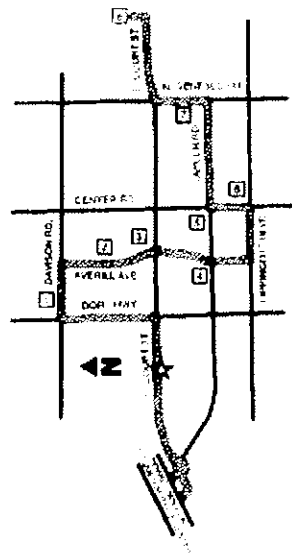
### Points of Interest

1. Robert Manor
2. Platt Community College
3. Consumer's Energy
4. Goodwill Industries
5. Courtland Center
6. Genesys East Campus
7. Centerview Apartments
8. Potter School
9. Boys and Girls Club of Greater Flint
10. Home Depot
11. Kroger
12. Amtrak/Indian Trail Center

To go to the Flint City Farming Market, take primary route 10 to stop 12 to the Downtown Transit Center.

## Primary Route 15 - Dort-Averill

Downloadable PDF Route Schedule



### Points of Interest

1. Day-Len & Don Federal Credit Union
2. Genesee Packaging Plant
3. Gosow
4. Knaphelde Industrial Truck Center
5. Dort Event Center
6. Burton Trobert Dale
7. Genesee Christian Elementary School
8. Wal-Mart - Court Street

The MTA also runs two programs, the "Your Ride Service" and "Senior Shopper Service".

The "Senior Shopper Service" picks residents up right in front of Court Street and takes them to Meijer on Mondays, Walmart on Thursdays and Kroger on Fridays. The MTA easy ride and shop schedule is attached to this exhibit. The fee for the Senior Shopper Service is \$1.75 for seniors 55-64 and \$.85 for seniors with a disability or who are 65 or older.

The "Your Ride Service" is a handicapped accessible personalized public transit service operates Monday – Friday from 6:30 a.m. to 10:30 p.m. Saturday from 6:30 a.m. to 10:30 p.m., and Sunday from 7:00 a.m. to 7:30 p.m. It is designed for use by persons who are unable to use fixed route bus service (those 65 years of age or older, or if a disability prevents them from using a fixed route). This curb-to-curb service is available throughout Genesee County to those who qualify. This service has a fare associated with its use and can be scheduled by the resident calling their local Your Ride Service Center. The fare is discounted for seniors, the disabled and poor.

Lastly, Court Street operates a seven-passenger van which takes residents to an array of services including any type of medical appointment, lab work and imaging, the bank/credit union, for social services appointments and to/from work. This van is free to all residents as Court Street covers the cost of the van through its operational budget. Residents call the Court Street main office at least 24 hours in advance to schedule the van service. They can potentially get same day appointments if the van has availability. As a courtesy, the van driver or Court Street office staff will call residents to remind them of their ride.

In addition to the van service Court Street provides; it also brings essential services to the residents. These include, but are not limited to, doctor visits, rehab services, a food pantry, groceries and goods to purchase, and a beautician.

The transportation services above allow the residents to access the following types of amenities:

- Health Care & Social Services
- Grocery Stores
- Recreational Facilities
- Civic Facilities
- Adult Education Facilities
- Other Neighborhood Amenities

Facility	Name	Address	Distance	Transportation
Health Care and Social Facilities	Court Street Kearsley Residence AKA Court Street Home	700 E. Kearsley	0.7 miles	Within 30 Minute Bus Route
Health Care and Social Facilities	Hurley Medical Center	1 Hurley Plaza, Flint, MI 48503	1.7 miles	Within 30 Minute Bus Route
Health Care and Social Facilities	Hamilton-Court Street Senior Health Center	In the building/onsite	n/a	Within Walking Distance
Health Care and Social Facilities	McLaren Regional Medical Center	401 S Ballenger Hwy, Flint, MI 48532	3 miles	Within 30 Minute Bus Route
Health Care and Social Facilities	VAAA	225 E. Fifth St. Flint, MI 48502	0.4 miles	Within Walking Distance
Health Care and Social Facilities	PACE	412 E. First, Flint, MI 48502	0.7 miles	Within 30 Minute Bus Route



Facility	Name	Address	Distance	Transportation
Health Care and Social Facilities	Red Cross	1401 S Grand Traverse St, Flint, MI 48503	1.2 miles	Within 30 Minute Bus Route
Health Care and Social Facilities	Disability Network	3600 Dort Hwy 54, Flint, MI 48507	4 miles	Within 30 Minute Bus Route
Grocery Store	Farmers Market	300 E. 1st St. flint, MI 48502	0.5 miles	Within Walking Distance
Grocery Store	Sav-A-Lot	2918 Flushing Rd, Flint, MI 48504	4 miles	Within 30 Minute Bus Route
Grocery Store	Aldi	1054 S Center Rd, Burton, MI 48509	3 miles	Within 30 Minute Bus Route
Grocery Store and Other Neighborhood- Serving Amenities	Walmart	5323 E Court St N, Burton, MI 48509	3.8 miles	Within 30 Minute Bus Route
Grocery Store and Other Neighborhood- Serving Amenities	Walmart	4313 Corunna Rd, Flint, MI 48532	5 miles	Within 30 Minute Bus Route
Grocery Store and Other Neighborhood- Serving Amenities	Meijer	2333 S Center Rd, Burton, MI 48519	2.6 miles	Within 30 Minute Bus Route
Grocery Store and Other Neighborhood- Serving Amenities	Kroger	3288 Corunna Rd, Flint, MI 48532	2.8 miles	Within 30 Minute Bus Route
Recreational Facilities	Brennan Community Center	1301 Pingree, Flint, MI 48503	1.4 miles	Within 30 Minute Bus Route
Recreational Facilities	Woodlawn Park	1500 Woodlawn Park Dr, Flint, MI 48503	0.5 miles	Within Walking Distance
Recreational Facilities	Whaley Park	3817 N Franklin Ave, Flint, MI 48506	3 miles	Within 30 Minute Bus Route
Recreational Facilities	Burroughs Park	Flint, MI 48503	0.3 miles	Within Walking Distance
Recreational Facilities	Wilson Park	448 Wallenberg St, Flint, MI 48502	0.5 miles	Within Walking Distance
Recreational Facilities	YMCA	411 E. Third St., Flint, MI 48503	0.6 miles	Within 30 Minute Bus Route
Recreational Facilities	Capitol Theater	140 E. Second, Flint MI 48502	0.7 miles	Within 30 Minute Bus Route
Recreational Facilities	The Eberson	130 E. Second Flint, MI 48502	0.7 miles	Within 30 Minute Bus Route
Recreational Facilities	Flint Public Library	1026 Kearsley St. Flint, MI 48503	0.6 miles	Within 30 Minute Bus Route
Recreational Facilities	Cultural Center	1310 Kearsley St. Flint, MI 48503	0.6 miles	Within Walking Distance
Civic Facilities	City Hall	1101 S. Saginaw, Flint, MI 48502	0.7 miles	Within 30 Minute Bus Route

Facility	Name	Address	Distance	Transportation
Civic Facilities	St. Luke's Missionary Baptist Church	821 E. Court St., Flint MI 48503	700 ft.	Within Walking Distance
Civic Facilities	Flint Police	210 E 5th St, Flint, MI 48502	0.7 miles	Within 30 Minute Bus Route
Civic Facilities	Flint Fire Station #1	310 E. Fifth St, Flint, MI 48502	0.6 miles	Within 30 Minute Bus Route
Civic Facilities	Downtown Post Office	400 S. Saginaw Flint, MI 48502	0.9 miles	Within 30 Minute Bus Route
Civic Facilities	Social Security Office	2021 W Carpenter Rd, Flint, MI 48505	7 miles	Within 30 Minute Bus Route
Adult Educational Facilities	Mott Community College	1401 E. Court St. Flint, MI 48503	0.3 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Fairfield Village Association	727 East St. Flint, MI 48503	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Courtland Center Mall	4190 E. Court St. Burton, MI 48509	2.7 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Dollar General	1835 E. Court St. Flint, MI 48503	0.7 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Rite Aid	2838 E. Court St. Flint MI 48506	1.8 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Chase	111 E. Court St. Flint, MI 48502	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Refinery Hair Co.	718 Harrison St. Flint, MI 48502	0.6 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Diamond Cleaners	2147 S. Saginaw Flint, MI 48503	1.6 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Farmer's Market	300 E. 1st St. Flint, MI 48502	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Temple Dining Room	755 Saginaw St, Flint, MI 48502	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Sweet Peaches Veggie Bistro	300 E 1st St #4pm, Flint, MI 48502	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Beirut Restaurant and Grocery	300 E 1st St, Flint, MI 48502	0.5 miles	Within Walking Distance
Other Neighborhood-Serving Amenities	Hallwood Plaza	4813 Clio Rd, Flint, MI 48504	7 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Goodwill	4190 E Court St, Burton, MI 48509	3 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	Yorkshire Plaza	4290 Miller Rd, Flint, MI 48507	6 miles	Within 30 Minute Bus Route
Other Neighborhood-Serving Amenities	South Flint Plaza	4817 Fenton Rd, Flint, MI 48507	4 miles	Within 30 Minute Bus Route

The site has been well suited to attract elderly residents and with the addition of the HUD 202 funding is projected to make it even more attractive for lower income residents of the area.

210391

ORDINANCE NO. \_\_\_\_\_

An Ordinance to amend the Flint City Code of Ordinances by repealing Chapter 35, Personnel, Article VI, Personnel Code, Section 35-112.1, Adoption - Job Description and Qualifications Deputy Director of Community and Economic Development.

\_\_\_\_\_  
Inez M. Brown, City Clerk

APPROVED AS TO FORM:

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF FLINT:

\_\_\_\_\_  
Angela Wheeler, Chief Legal Officer

Sec. 1. That Section 35-112.1 of the Code of the City of Flint shall be REPEALED as follows.

**ARTICLE VI. PERSONNEL CODE**

~~§35-112.1 ADOPTION JOB DESCRIPTION AND QUALIFICATIONS DEPUTY DIRECTOR OF COMMUNITY AND ECONOMIC DEVELOPMENT~~

~~Pursuant to the provisions of Flint City Charter 1-501(B), the job description and qualifications are hereby adopted by reference AND ATTACHED HERETO.~~

Sec. 2. This ordinance shall become effective immediately upon publication.

Adopted this \_\_\_\_\_ day of

\_\_\_\_\_ A.D., 2021.

\_\_\_\_\_  
Sheldon A. Neeley, Mayor

180071

ORDINANCE NO. \_\_\_\_\_

An Ordinance to amend the Flint City Code of Ordinances by adopting Article VI Chapter 35, Personnel; Section 35-112.1, Adoption-Job Description and Qualifications-Deputy Director of Community and Economic Development.

\_\_\_\_\_  
Angela Wheeler, Chief Legal Officer

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**IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF FLINT:**

Sec. 1. That Section 35-112.1 of the Code of the City of Flint shall be amended as follows.

**ARTICLE VI. PERSONNEL CODE**

**§ 35-112.1 ADOPTION – JOB DESCRIPTION AND QUALIFICATIONS DEPUTY DIRECTOR OF COMMUNITY AND ECONOMIC DEVELOPMENT**

Pursuant to the provisions of Flint City Charter 1-501(B), the job description and qualifications are hereby adopted by reference AND ATTACHED HERETO.

Sec. 2. This ordinance shall become effective immediately upon publication.

Adopted this \_\_\_\_\_ day of

\_\_\_\_\_, A.D., 2018.

\_\_\_\_\_  
Karen W. Weaver, Mayor

\_\_\_\_\_  
Inez M. Brown, City Clerk

**APPROVED AS TO FORM:**

**City of Flint**  
**Economic Development Department**  
**Deputy Director**

**The City of Flint Economic Development Department**

The City of Flint's Economic Development Department develops and leads the innovative programs that increase the prosperity of Flint's citizens, our businesses, and our diverse neighborhoods.

**The Position**

Under general direction of the Director of the City of Flint Economic Development Department, the Deputy Director is responsible for assisting the Director to plan, direct, manage, and oversee the activities and operations of the Department. Directs personnel involved in providing programmatic, financial, and managerial support for the Department.

**Duties and Functions**

Essential duties and functions, may include the following. Other related duties may be assigned.

- Assists with ensuring that all activities are carried out in compliance with department policy, local and state, and federal regulations and laws governing activities.
- Assists with directing the activities related to the development, implementation and evaluation of initiatives, organizational structure, and daily operations.
- Assists with overseeing activities designed to enhance organizational health and welfare of employees to include safety and employee health activities, reward and recognition activities, etc.
- Assists with reviewing agendas, reports, and policy statements for presentation to boards and commissions and the Flint City Council.
- Assists with analyzing fiscal impact of proposed policies and programs and recommends options to the Department Director.

- Oversees the development of performance measures and reporting systems and utilizes to establish accountability, determine progress, evaluate alternatives, assess productivity and obtain agreement on expectations in order to achieve required Department/Division business results.
- Delegates activities, responsibilities, and authority, as necessary and desirable, to division staff while retaining overall responsibility and accountability for performance.
- Ensures that responsibilities, authority, and accountability of all direct subordinates and unit supervisors are defined and understood.
- Develops excellent working relationships with key staff, division and departmental employees, other governmental organizations, and with external services, such as consultants, legal counsel, boards and commissions, and the Flint City Council.
- Informs the Director about current trends, problems and activities in these areas to facilitate decision making.
- Represents the Department at City Council Meetings, Boards and Commissions, and Community events as directed.

#### **Knowledge, Skills, and Abilities**

Must possess required knowledge, skills, abilities and experience and be able to explain and demonstrate, with or without reasonable accommodations, that the essential functions of the job can be performed.

- Knowledge of public policy development and analysis.
- Skill in preparing and analyzing budgets, reports and studies.
- Skill in communicating effectively both orally and in writing.
- Skill in handling multiple tasks and prioritizing.
- Skill in using computers and related software applications.
- Skill in data analysis and problem solving.
- Skill in evaluating bids and making recommendations.
- Ability to plan strategically.
- Ability to plan and schedule operations.

### **Education and Experience**

Qualified candidates will have a Bachelor's degree from an accredited college or university with major course work in Business Administration, Public Administration, Urban Planning, or a closely related field. The ideal candidate will have experience in managing and directing a complex organization with a minimum of five years supervisory experience.

### **The Ideal Candidate**

This individual should also have experience with economic development and downtown redevelopment and be well versed in managing the development and challenges that may occur in both areas. The knowledge of current trends, issues and strategies that affect and influence all aspects of economic and community development is required. Experience creating jobs through business attraction and assisting local businesses with international expansion and trade will be vital. Knowledge on live music issues and emergent music development will be beneficial.

The successful candidate should have strong interpersonal skills and must have the capacity and interest to be a supportive leader for staff. The ideal candidate should have proven experience in building and maintaining a broad spectrum of partnerships with the community, project developers and internally. Effective communication along with strong collaboration and team building skills will be necessary for this individual to be successful; advanced written and oral communication skills are imperative.

210392

ORDINANCE NO. \_\_\_\_\_

An Ordinance to amend the Flint City Code of Ordinances by repealing Chapter 35, Personnel, Article VI, Personnel Code, Section 35-112.6, Adoption - Job Description and Qualifications Deputy Director of Department of Public Works.

\_\_\_\_\_  
Inez M. Brown, City Clerk

APPROVED AS TO FORM:

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF FLINT:

\_\_\_\_\_  
Angela Wheeler, Chief Legal Officer

Sec. 1. That Section 35-112.6 of the Code of the City of Flint shall be REPEALED as follows.

*ARTICLE VI. PERSONNEL CODE*

~~§35-112.1 — ADOPTION — JOB DESCRIPTION AND QUALIFICATIONS DEPUTY DIRECTOR OF DEPARTMENT OF PUBLIC WORKS~~

~~Pursuant to the provisions of Flint City Charter 1-501(B), the job description and qualifications are hereby adopted by reference AND ATTACHED HERETO.~~

Sec. 2. This ordinance shall become effective immediately upon publication.

Adopted this \_\_\_\_\_ day of

\_\_\_\_\_ A.D., 2021.

\_\_\_\_\_  
Sheldon A. Neeley, Mayor



ORDINANCE NO. \_\_\_\_\_

An Ordinance to amend the Flint City Code of Ordinances by adopting Article VI Chapter 35, Personnel; Section 35-112.6, Adoption-Job Description and Qualifications-Deputy Director of Department of Public Works.

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF FLINT:

Sec. 112. That Section 35-112.6 of the Code of the City of Flint shall be amended as follows.

**ARTICLE VI. PERSONNEL CODE**

**§ 35-112.2 ADOPTION – JOB DESCRIPTION AND QUALIFICATIONS  
DEPUTY DIRECTOR OF DEPARTMENT  
OF PUBLIC WORKS**

Pursuant to the provisions of Flint City Charter 1-501(B), the job description and qualifications are hereby adopted by reference AND ATTACHED HERETO.

Sec. 2. This ordinance shall become effective this \_\_\_\_ day of \_\_\_\_\_ 2018.

Adopted this \_\_\_\_ day of

\_\_\_\_\_, A.D., 2018.

\_\_\_\_\_  
Karen W. Weaver, Mayor

\_\_\_\_\_  
Inez M. Brown, City Clerk

180174.1

APPROVED AS TO FORM:

  
Angela Wheeler, Chief Legal Officer

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## CITY OF FLINT

### Position Description

Class Title: Deputy Director of Department of Public Works	Salary: \$79,184.13-\$92,949.30
Established: March 15, 2018	Appointed

#### **GENERAL STATEMENT OF DUTIES**

Under the supervision of the Director of the Department of Public Works the Deputy DPW Director is responsible for performing executive level administration, supervisory and technical work in directing the activities of a full-service public works department which includes transportation, sanitation, and utilities/water services.

**SUPERVISION RECEIVED:** Work is performed under the general direction of the Director of the Department of Public Works.

**SUPERVISION EXERCISED:** Exercises supervisors over Department and Division Heads under the Department of Public Works. Supervision is exercised over Working Foreman, Equipment Operators, Laborers, Mechanics and others engaged in labor, construction, repair or maintenance work for the general operation of Department of Public Works.

#### **ESSENTIAL DUTIES AND RESPONSIBILITIES:**

1. Plans, organizes and directs all aspects of departmental operations ensuring safety, quality and efficiency. Develops, recommends and implements departmental policies and procedures, internal controls, and departmental goals and objectives in accordance with departmental needs, legal requirements and the city's overall strategic plan.
2. Evaluate the need for and develop plans, schedules and cost estimates for long-range capital improvement programs and maintenance of public facilities.
3. Assists the Public Works Department in meetings with public officials, other public agencies and civic groups to coordinate, develop and implement projects and programs.
4. Assists with maintaining departmental awareness of state-of-the-art developments in management and fields of Public Works operations
5. Assists with monitoring development related to designated services areas, evaluates their impact on City operations and implements policy and procedure improvements.
6. Assists with monitoring existing methods and procedures, making recommendations for increased efficiencies and cost effectiveness.
7. Assists with ensuring that utility systems and facilities meet State and EPA requirements.
8. Resolves citizen complaints regarding delivery of departmental services.
9. Supervises personnel and assists with performance and oversees training and professional development.
10. Selects and procures equipment and materials as needed in accordance with capital improvement plans and approved budgets.
11. Prepares and maintains appropriate records and reports as required.
12. Demonstrates continuous effort to improve operations, streamline work processes and work cooperatively and jointly to provide quality customer service.
13. Ability to establish and maintain effective working relationships with the public, subordinates, city officials, company representatives and regulatory agencies.
14. Performs other duties as determined by the City Administrator.

**MINIMUM ENTRANCE REQUIREMENTS:**

Associates degree in STEM (Science, Technical, Math) or closely related field, and seven (7) to ten (10) years of progressively responsible experience in the area of public works, utilities engineering.

**AND**

Two (2) years in an administrative/supervisory capacity.

Bachelor's degree in STEM (Science, Technical, Math) or closely related field, and five (5) to seven (7) years of progressively responsible experience in the area of public works, utilities engineering.

**AND**

At least one (1) year in an administrative/supervisory capacity.

**OR**

High School Diploma or Equivalent AND a minimum of fifteen (15) years of progressively years of progressively responsible experience in the area of public works.

**AND**

At least one (1) year in an administrative/supervisory capacity

**PHYSICAL DEMANDS**

While performing the duties of this job, the employee is frequently required to sit and talk or hear. The employee is occasionally required to walk; use hands to finger, handle, or feel objects, tools, or controls; and reach with hands and arms.

The employee must occasionally lift and/or move up to 10 pounds. Specific vision abilities required by this job include close vision and the ability to adjust focus.

Classification History:

Established: March 15, 2018

Revised: (HR) 4/3/18

**The job description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the job change.**