$Supplemental\ Information$ Enterprise-wide Operations & Maintenance Department and Account Level Amendments

	Total	
	4th Quarter	
Departmental and Account Level Amendments	FY 2023 Amendments	Explanation of Key Items
A Water System Operations	4,519,000	
Adams Road Pumping Station	80,000	
Supplies & Other	(60,000)	
Utilities COO - Water Operations & Field Services	140,000 8,000	
Personnel	(20,000)	
Supplies & Other	28,000	
Eastside Pumping Station	19,000	
Supplies & Other	(6,000)	
Utilities Electric Ave Pumping Station	25,000 8,000	
Utilities	8,000	
Ford Rd Pumping Station	92,000	
Utilities	92,000	
Franklin Road Pumping Station	280,000	
Supplies & Other Utilities	(20,000)	
Haggerty Road Pumping Station	30,000	Increased electric usage and an increased demand charge have resulted in higher billing.
Utilities Utilities	30,000	
Imlay Pumping Station	-	
Supplies & Other	100,000	
Utilities	(100,000)	
Joy Road Pumping Station Supplies & Other	100,000 (30,000)	
Utilities	130,000	
Lake Huron Water Plant	1,037,300	
Chemicals	(18,700)	
Contractual Services		Increase due to Chartier - Lagoon A maintenance and Brown & Caldwell - Pilot Plant work
Personnel	20,000	
Supplies & Other Utilities	66,000 690,000	Electric: Lake Huron Water Plant hit higher peak demand factor in August of 2022 which resulted in increased
Cundes	030,000	expenses through FY 2023; overall increase in KWH charges and power supply cost recovery charges; and increase of pumping due to dry weather events this spring causing higher cost than prior years. Gas: Commodity cost increased significantly
Michigan Ave Pumping Station	60,000	
Supplies & Other	(10,000)	
Utilities	70,000	
Newburgh Pumping Station Utilities	80,000 80,000	
North Service Center Pumping Station	295,000	
Utilities	295,000	Electric: Increased electric usage and an increased demand charge have resulted in higher billing. Gas: Increased
North and Make Plant	4 207 000	gas use during heating months
Northeast Water Plant Chemicals	1,387,000 60,000	
Contractual Services	125,000	
Personnel	14,000	
Supplies & Other	69,000	
Utilities	1,119,000	Electric: Northeast Water Plant primarily, along with Springwells Water Plant, picked up some of the pumping effort during the 102 inch main break in 2022 that was diverted from Lake Huron Water Plant; overall increase in kWh charges and power supply cost recovery charges, and increase of pumping due to dry weather events this spring causing higher cost than prior years. Gas: Commodity cost increased significantly.
Northwest Pumping Station	50,000	Sewer: increase is driven by stormwater drainage charges increasing annually.
Supplies & Other	30,000	
Utilities	20,000	
Orion Township Pumping Station	120,000	
Supplies & Other	110,000	
Utilities Rochester Pumping Station	10,000 29,500	
Supplies & Other	5,000	
Utilities	24,500	
Schoolcraft Pumping Station	65,000	
Supplies & Other	10,000	
Utilities	55,000	
Southwest Water Plant	(105,700) 35,000	
Capital Program Allocation Chemicals	4,300	
Contractual Services	(190,000)	
Personnel	(190,000)	
Supplies & Other	(42,000)	
Utilities	277,000	Gas: Commodity cost increased significantly.
		Sewer: increase is driven by stormwater drainage charges increasing annually, also due to actual sewer disposal expenses that are driven by the cleaning of the pit and how much dredging is completed.
Springwells Water Plant	76,300	expenses that are arriven by the cleaning of the pit and now matri dreaging is completed.
Capital Program Allocation	(10,700)	
	•	

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

	Total	
	4th Quarter	
Departmental and Account Level Amendments	FY 2023	Explanation of Key Items
Departmental and Account Level Amendments Chemicals		Explanation of Key Items Increases mostly due to increasing prices for chemicals, including a significant increase in Phosphoric acid from
Chemicals	340,000	November 2022 to March 2023. Also due to increase usage in early spring for Turbidity resulting in an increased use of Alum and Chlorine
Contractual Services	(1,030,000)	Decrease due to Mobile Dredging contract. FY 2023 budget was based upon previous years' expenses and the
		potential for utilitization of the contract at this location. It has been determined that these services will not be needed at this location in FY 2023.
Personnel	(10,000)	
Supplies & Other	80,000	
Utilities	707,000	Electric: Springwells Water Plant, along with Northeast Water Plant, picked up some of the pumping effort during the 102 inch main break in 2022 that was diverted from Lake Huron Water Plant; overall increase in kWh charges and power supply cost recovery charges, and increase of pumping due to dry weather events this spring causing higher cost than prior years. Gas: Commodity cost increased significantly along with increased usage due to a natural gas power air conditioning system (blast chiller).
Water Director	(13,000)	* · · · · · · · · · · · · · · · · · · ·
Contractual Services	(15,000)	
Personnel	(50,000)	
Supplies & Other	52,000	
Water Engineering	512,000	
Capital Program Allocation		Actual hours reported by engineers working on capital projects is less than forecasted.
Contractual Services		Reduction in the anticipated expenses for PMA Consultants - Capital Improvement project.
Personnel	(10,000)	
Supplies & Other	(8,000)	
Water Quality	128,500	
Chemicals Contractual Services	73,500	
Personnel	(15,000) 70,000	
Water System Operations Unallocated Reserves	(1,674,900)	
Unallocated Reserve		Unallocated Reserve was used for the refinement of various account categories within the Water Operations
Offallocated Neserve	(1,074,300)	area, primarily Utilities.
Water Works Park	1,564,000	area, primarily assisted.
Chemicals		Increases mostly due to increasing prices for chemicals, including a significant increase in Phosphoric acid from November 2022 to March 2023. Also due to increase usage in early spring for Turbidity resulting in an increased use of Alum and Chlorine
Contractual Services	723,000	Increase due to increased utilization of Weiss Construction screen rehabilitation project and Arcadis Comprehensive corrosion control project.
Personnel	(80,000)	
Supplies & Other	210,000	
Utilities	396,000	Electric: Increase due to an overall increase in KWH charges and power supply cost recovery charges. Also, increase of pumping due to dry weather events this spring causing higher cost than prior years. Gas: Commodity cost increased significantly. Sewer: increase is driven by stormwater drainage charges increasing annually.
West Chicago Rd Pumping Station	5,000	
Utilities	5,000	
West Service Center Pumping Station	155,000	
Supplies & Other	(50,000)	
Utilities	205,000	
Wick Road Pumping Station	33,000	
Supplies & Other	(60,000)	
Utilities	93,000	
Ypsilanti Pumping Station	98,000	
Supplies & Other	(4,000)	
Utilities R. Wastowater System Operations	102,000	
B Wastewater System Operations 7 Mile Combined Sewer Overflow	3,981,000 117,900	
Chemicals	(1,900)	
Contractual Services	(32,200)	
Supplies & Other	157,200	
Utilities	(5,200)	
Baby Creek Combined Sewer Overflow	(429,100)	
Chemicals	(21,800)	
Contractual Services	(32,400)	
Supplies & Other	. , ,	Reductions in repairs at this CSO facility due to priority repairs at other facilities related to condition and criticality considerations.
Utilities	(48,400)	
BDF, COF & Hauling	1,122,500	
Contractual Services	181,000	
Personnel	(130,500)	Ingressed due to ingressed cost nor MOTI I for noticed and
Utilities Belle Isle Combined Sewer Overflow		Increase due to increased cost per MBTU for natural gas.
Chemicals	(17,500) (5,100)	
Contractual Services	(5,100)	
Shared Services	(14,900)	
Supplies & Other	2,000	
Belle Isle Pumping Station	-,:00	
Shared Services	(10,000)	

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

	Total	
	4th Quarter	
	FY 2023	
Departmental and Account Level Amendments	Amendments	Explanation of Key Items
Supplies & Other	10,000	
Chief Operating Officer Wastewater	(322,100)	
Capital Program Allocation	40,600	
Contractual Services	(416,000)	
Danagaral	(120,000)	Reduction due to transfer of work force developement program to actual training costs under supplies & other
Personnel Supplies & Other	(120,900) 174,200	
Combined Sewer Overflow	(583,100)	
Contractual Services		Reduced use of facilities maintenance contract (Lakeshore Global #2102834).
Personnel	(171,000)	
Supplies & Other	(2,400)	
Conner Creek Combined Sewer Overflow	(181,000)	
Chemicals		Reduction in use of hypochlorite due to higher-than-normal temperatures and lower-than-normal precipitation
	(,	during later half of FY 2023.
Contractual Services	(26,600)	
Supplies & Other	386,100	Increase due to the project for the replacement of stop logs (Ballard Marine); this project was not known at the
		time that the FY 2023 budget was developed.
Utilities	268,200	
Conner Pumping Station	14,000	
Supplies & Other	(46,000)	
Utilities	60,000	
Fairview Pumping Station	561,000	
Supplies & Other	480,000	Increase in pump and other equipment repairs due to damange resulting from the June/July 2021 wet weather
		events.
Utilities	81,000	
Fischer Pumping Station	-	
Shared Services	(23,000)	
Supplies & Other	23,000	
Freud Pumping Station	(48,500)	
Supplies & Other	(45,000)	
Utilities Hubble Southfield CSO	(3,500)	
Chemicals	(46,600) (88,200)	
Contractual Services	(6,800)	
Supplies & Other	110,600	
Utilities	(62,200)	
Industrial Waste Control	(227,700)	
Contractual Services	(59,200)	
Personnel	(102,900)	
Supplies & Other	(65,600)	
Leib Combined Sewer Overflow	(15,000)	
Chemicals	17,300	
Contractual Services	(52,100)	
Supplies & Other	42,900	
Utilities	(23,100)	
Northeast Pumping Station	160,000	
Utilities	160,000	
Oakwood Combined Sewer Overflow	102,900	
Chemicals	(123,500)	
Contractual Services	17,500	
Supplies & Other	(51,400)	
Utilities	260,300	
Oakwood Pumping Station	50,000	
Supplies & Other Utilities	60,000	
	(10,000)	
Puritan Fenkell Combined Sewer Overflow Chemicals	126,600 (32,900)	
Cnemicals Contractual Services	(32,900)	
Supplies & Other	200,100	
Utilities	(3,500)	
St Aubin Combined Sewer Overflow	113,100	
Chemicals	5,700	
Contractual Services	51,600	
Supplies & Other	56,400	
Utilities	(600)	
Wastewater Dewatering Process	(517,300)	
Chemicals	52,100	
Contractual Services	101,700	
Personnel	(258,400)	
Supplies & Other	(412,700)	Equipment repair costs coming in under budget for gas sensors, bull gear repair & blower unit replacements.
Wastewater Director	(640,500)	
Chemicals	4,100	
Contractual Services	17,200	
Personnel	(390,500)	Reduced use of facilities maintenance contract to fill vacant positions (Lakeshore Global #2102834); positions will
		be filled at later time.
Supplies & Other	(271,300)	

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

Page		Total	
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Capabil Propriet Microsine Capabil Command Service Capabil Comma	· ·		Explanation of Key Items
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Exercised 14,500 1,500	l		
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Supplies & Other 1,118,100 Cherenated Mexicance (microardice froces) 1,118,100 Cherenated Services 1,12,100 Supplies & Other 1,12,100 Supplies & Other 1,12,100 Wassewater Laboratories 3,20 Supplies & Other 1,00 Valentian Contract 1,00 Valentian Contractual Enroces 1,00 Valentian Enroces 1,00			
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Contractacide Previews 12.200 Encironation 12.	Supplies & Other	199,000	
Contractual Services 12,000 12,00			
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Contractual Services Cip. 1000		•	
Supplies & Other 10.300			
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Contractual Services Personnel 1,624,300 Increase in equipment repairs needed due to reliability and criticality considerations; improving rack & grit system and primary clarification. Wastewater Process Control (613,100) Personnel (48,000) Reduction due to 6 FTE positions not filled during FY 2023 Supplies & Other Supplies & Other Supplies & Other (312,000) Reduced scheduled equipment replacement that will be coved under new Emerson contract 210:167. Wastewater Secondary Process (20,000) Personnel (312,000) Reduced scheduled equipment replacement that will be coved under new Emerson contract 210:167. Wastewater Secondary Process (20,000) Personnel (312,000) Personnel (312,000) Personnel (312,000) Wastewater System Operations Unallocated Reserves (212,000) Woodmere Pumping Station (312,000) Shared Services (312,000) Supplies & Other (312,000) Centralized Services (312,000) Centralized Services (312,000) Ceptral Improvement Planning (312,000) Ceptral Improvement Planning (313,000) Ceptral Planning Allocated Reserve (314,000) Ceptral Planning Allocated Reserve (315,000) Ceptral Planning Allocated Reserve (315,000) Cep			Average monthly usage has decreased below the forecast
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Contractual Services	**		
Contractual Services 7,000 Shared Services 32,000 Supplies & Other 25,000			
Share Services 32,000 Supplies & Other 25,000	Woodmere Pumping Station	-	
Supplies & Other	Contractual Services	7,000	
Centralized Services 748,000 Contractual Services 1,255,000 Driven primarily by vendor HDR Michigan with increased activity on 14 mile road main break. Personnel (488,000) Vacancies being filled at slower pace than planned. Supplies & Other (19,000) Capital Improvement Planning 221,200 Capital Program Allocation 191,200 Contractual Services 885,000 Additional AECOM support needed than was originally anticipated in the FY 2022 budget. Personnel (843,700) Vacancies being filled at slower pace than planned. Supplies & Other (11,300) Vacancies being filled at slower pace than planned. Centralized Services Unallocated Reserves 154,700 Lunal Contractual Services Unallocated Reserves 154,700 Chef Planning Officer (33,400) Personnel (20,000) Supplies & Other (13,400) Personnel (13,400) Energy, Research & Innovation (339,900) Personnel (605,000) Supplies & Other (164,900) Personnel (164,900) Personnel (605,000) Utilization of contract services varies from year to year based on need. Suppl			
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· ·	**		
	Contractual Services	110,000	

 $Supplemental\ Information$ Enterprise-wide Operations & Maintenance Department and Account Level Amendments

	Total	
	4th Quarter FY 2023	
Departmental and Account Level Amendments		Explanation of Key Items
Personnel	(112,000)	
Supplies & Other	106,000	
Info Tech Enterprise Asset Mgmt Systems Contractual Services	(808,000) (795,000)	Reduced utilization of the Trimble Unity Implementation contract and GIS Professional Service contract with
Contractad Scrivices	(755,000)	Magnolia Rivers.
Personnel	(9,000)	
Supplies & Other	(4,000)	
Info Technology Infrastructure	(1,867,000)	
Contractual Services Supplies & Other		Actual costs for the AT&T Global Network Services contract have come in under budget. Repair & Maintenance Hardware decrease for Oracle Database Licensing due to declining need for as many
Supplies a Strict	(317,000)	licenses.
Info Technology Project Management Office	189,500	
Personnel	186,000	
Supplies & Other Info Technology Security & Risk	3,500 4,000	
Supplies & Other	4,000	
Info Technology Service Delivery	(279,500)	
Personnel	(20,500)	
Supplies & Other	(259,000)	
Office of the CIO Contractual Services	157,000 (15,000)	
Personnel	165,000	
Supplies & Other	7,000	
Security and Integrity	468,000	
Contractual Services	200,000	
Personnel Supplies & Other	268,000	
System Resiliency	145,000	
Personnel	140,000	
Supplies & Other	5,000	
Systems Analytics	(1,007,000)	
Contractual Services Personnel		Utilization of the Applied Science contract for sewer dye testing is less than anticipated. PCI transitional labor requirements were lower than projected
Supplies & Other	(20,500)	
Utilities	10,000	
Systems Operations Control	2,052,000	
Contractual Services	1,830,000	Increased utilization of 2004889 - Specialized Services contract and implementation of contracts for remote site work on sewer level sensors that are needed to insure system resiliency that were not budgeted for (projects
		came into place during FY 2023)
Personnel	410,000	Increased utilization of overtime and promotion of several team members within Systems Control.
Supplies & Other	(208,000)	
Utilities	20,000	
Systems Planning Contractual Services	(257,900) (210,000)	
Personnel	(15,500)	
Supplies & Other	(32,400)	
Systems Planning & Development	(371,600)	
Contractual Services	(98,000)	
Personnel Supplies & Other	(267,000) (6,600)	
Transformation	(54,000)	
Personnel	(55,000)	
Supplies & Other	1,000	
D Administrative & Other Services Administrative Services Unallocated Reserves	(419,400)	
Unallocated Reserve		Unallocated Reserve was used for the refinement of various account categories within the Administrative &
	, -,,	Other Services area, primarily related to the contractual services.
Board of Directors	(12,800)	
Personnel	2,100	
Supplies & Other CFO Services	(14,900) 83,800	
Contractual Services	19,200	
Personnel	62,900	
Supplies & Other	1,700	
Chief Executive Officer	- (25.000)	
Contractual Services Personnel	(35,000) 32,100	
Supplies & Other	2,900	
Chief Financial Officer	(192,900)	
Contractual Services	(50,500)	
Personnel	(124,300)	
Supplies & Other Enterprise Risk Management and Safety	(18,100) (400,000)	
Contractual Services		Less than projected costs for Environmental Health and Safety coverage (NTH Consultants).
Enterprise Risk Mgt. Insurance Fund	1,050,000	· · · · · ·
Contractual Services	1,050,000	Increase in costs for the Risk Management Insurance Coverage policies with Marsh USA Inc.

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

	Total	
	4th Quarter	
Departmental and Account Level Amendments	FY 2023	Explanation of Key Items
·		
Financial Management & Planning	(441,000)	
Contractual Services	(45,000)	
Personnel		Vacancies being filled at slower pace than planned.
Supplies & Other	(300)	
Financial Reporting & Accounting	(362,700)	
Contractual Services	(221,700)	
Personnel	(76,100)	
Supplies & Other	(64,900)	
General Counsel	468,000	
Contractual Services		Tapering litigation and investigation costs from the June 2021 flood event.
Personnel	93,000	
Supplies & Other	(26,500)	
Logistics and Materials	79,500	
Contractual Services	7,000	
Personnel	(70,000)	
Supplies & Other	75,500	
Utilities	67,000	
OD Administration	126,000	
Contractual Services	120,000	
Supplies & Other	6,000	
OD Talent Management	(112,000)	
Contractual Services	(161,000)	
Supplies & Other	49,000	
OD Training	(14,000)	
Contractual Services	(164,000)	
Personnel	5,000	
Supplies & Other	145,000	
Procurement Director	109,600	
Contractual Services	180,000	
Personnel	30,000	
Supplies & Other	(100,400)	
Treasury	(102,800)	
Contractual Services	(133,500)	
Personnel	35,600	
Shared Services	10,000	
Supplies & Other	(14,900)	
Chief Administrative Officer	140,700	
Contractual Services	30,000	
Personnel	102,500	
Supplies & Other	8,200	
Grand Total	8,500,000	

Totals may be off due to rounding