

Construction Work-in-Progress Quarterly Report (Unaudited)

As of June 30, 2020

For questions, please contact:

Andrew Sosnoski, CCIFP

Construction Accounting and Financial Reporting Manager

Phone: 313.999.2585

Email: Andrew.Sosnoski@glwater.org

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October 16, 2020

To Our Stakeholders:

The contents of this report represent the financial presentation of construction work-in-progress activity for the Great Lakes Water Authority (GLWA) as of June 30, 2020. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2021–2025 Capital Improvement Plan (CIP) and look to inform decision makers as we draft the FY 2022–2026 CIP.

As we continue to refine this report to better communicate pertinent information to inform decision makers and stakeholders, content and formatting may be changed. With the summary of active projects now regularly being reported to the Capital Planning Committee the project highlights previously being reported have been removed from this report.

Report Contents and Organization

This report is divided into two sections: one for the Water System and one for the Wastewater System as identified in the table of contents. Each section includes analysis and reporting of the following:

Executive Summary: Presentation of spend information is necessary to report our progress on CIP projects.

Construction Work-in-Progress Rollforward: This table provides a list of all projects in the CIP along with financial activity. This table may be used to revisit priorities, workload, and phasing.

Project Amendment Summary: The award of CIP contracts and the related execution thereof may result in deviations from the amount and timing of project activity. Project amendments are prepared to fund the related increase or decrease with either an adjustment to Capital Reserve or Program / Allowance accounts to amend the board approved fiscal year CIP accordingly and to inform decision makers in the development of future Capital Improvement Plans.



Financial Information

All project amounts are unaudited. This means that direct contractor costs are generally included in these totals with most pay estimates entered through June 30, 2020. There may, however, be some pay estimates that lag. The totals do not include indirect overhead.

Budget vs. Plan

Generally, GLWA's CIP projects span two or more fiscal years. The GLWA Board of Directors adopts a biennial "budget" and a five-year capital improvement "plan".

- ✓ The adopted **budget** relates to operations and maintenance expense, annual fixed commitments such as debt service, and incremental adjustments to reserves. The budget provides authority to spend within defined amounts. The budget is also referred to as the "revenue requirement" for the utility.
- ✓ After contracts are awarded at amounts variant from the CIP plan and more reliable anticipated spend data becomes available, the amended budget for the current fiscal year may increase or decrease by way of "Capital Reserve" budget amendments.
- ✓ The five-year capital improvement **plan** is a rolling plan that is updated at an administrative tracking level as projects move from estimated to actual bid numbers. An updated mid-cycle CIP would be presented to the Board for approval if the prioritization strategy was revised and/or the plan was in need of material revisions.
- ✓ In addition, the Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established.



WATER SYSTEM

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2020-2024 and related CIP Plan for FY 2020 were based on anticipation of FY 2020 activity resulting in 75% of planned spend. The Water System spend for the period ending June 30, 2020 is 53.4% of the FY 2020 board approved CIP, 61.3% of the FY 2020 board approved CIP with project amendments, and 71.2% of the FY 2020 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2020 Board Approved CIP was amended from \$143,247,000 to \$124,916,757 is provided in the subsequent Project Amendment Summary section of this report.

Water System Projects	FY 2019 CIP	FY 2019 Activity	FY 2019 Percentage		FY 2020 Activity (Unaudited)	FY 2020 Percentage
FY 2019 Board Approved CIP FY 2019 Board Approved CIP With Project Amendments	\$ 66,038,000 \$ 72,348,044	61,583,574 61,583,574	93.3% 85.1%			
FY 2020 Board Approved CIP FY 2020 Board Approved CIP With Project Amendments FY 2020 Capital Spend Rate Assumption (SRA)				\$ 143,247,000 124,916,757 107,435,250	\$ 76,542,465 76,542,465 76,542,465	53.4% 61.3% 71.2%



Construction Work-in-Progress Rollforward

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the CA&FR team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2020 4th quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
111004	CON-288	Electrical Tunnel Rehab
114001	SP-563	Springwells 1958 Filter Rehabilitation
115004	CON-208	WWP Chlorine System Upgrade
132001	DWS-858	Wick Road Pumping Station
132003	CON-270	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station
170104	CON-225	Orion and Newburgh Pumping Stations Improvements
170502	CON-181	Emergency Transmission Main Repairs

\$126.2 million is in CWIP as of June 30, 2020 as shown in the table beginning on the next page.

The order of the report on the subsequent pages is in ascending order by CIP project number.



Water System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate from FY 2021 - 2025 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through June 30, 2020	Life to Date Capitalization Through June 30, 2020	CWIP Balance June 30, 2020	Life to Date Activity Through June 30, 2020	Life to Date Activity / Total Project Plan Estimate
	Energy Management: Lake Huron Water Treatment									
111001	Plant Low Lift Pumping Improvements	\$ 55,090,000 \$	14,083 \$	401,000 \$	493,500	\$ 197,950 \$	- \$	212,034 \$	212,034	0%
111002	LHWTP Backflow Replacement	9,004,000	6,836,980	1,882,000	1,882,000	1,692,825	155,348	8,529,804	8,685,152	96%
111004	Electrical Tunnel Rehabilitation at Lake Huron WTP	4,136,000	2,768,607	4,296,000	1,275,214	1,124,082	3,892,299	390	3,892,689	94%
	Replacement of Filter Instrumentation and Raw									
111006	Water Flow Metering Improvements at Lake	16,626,000	777,960	3,333,000	3,533,468	295,505	-	1,073,466	1,073,466	6%
	Lake Huron WTP-Raw Sludge Clarifier and Raw									
111007	Sludge Pumping System Improvements	8,937,000	639,986	4,660,000	4,230,554	5,247,665	-	5,887,651	5,887,651	66%
111008	LHWTP Architectural Programming - Lab	1,299,000	-	-	-	110	-	110	110	0%
111009	Lake Huron WTP-35 MGD HLP, Flow Meters	29,226,000	35,864	9,030,000	9,030,000	80,890	-	116,755	116,755	0%
111010	Lake Huron Water Treatment Plant -Filtration and Pretreatment Improvements	5,632,000	-	-	-	-	-	-	-	0%
111011	Lake Huron WTP Pilot Plant	1,794,000	-	-	-	-	-	-	-	0%
	Low Lift Pumping Plant Caisson Rehabilitation at									
112002	Northeast WTP	1,345,000	1,134,767	203,000	203,000	38,112	1,169,962	2,918	1,172,880	87%
112003	NE WTP High Lift Pumping Electrical	57,565,000	-	-	-	5,785	-	5,785	5,785	0%
112005	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits	1,393,000	13,356	166,000	310,000	425,107	-	438,463	438,463	31%
	Northeast Water Treatment Plant Flocculator	,,	-,	,	,	-, -		,		
112006	Replacements	7,111,000	2,891	1,356,000	1,356,000	183,382	-	186,274	186,274	3%
113001	Southwest Water Treatment Plant, Sludge Treatment & Waste Wash water Treatment Facilit	-	-	-	-	341,324	-	341,324	341,324	100%
442002	High Lift Pump Discharge Valve Actuators	F 00C 000	2 470 400	2.076.000	2 020 000	2 702 744		F 272 222	F 272 222	000/
113002	Replacement at Southwest WTP	5,886,000	2,479,490	2,876,000	3,028,000	2,792,741	-	5,272,232	5,272,232	90%
113003	Replacement of Butterfly Valves	14,314,000	-	-	-	110	-	110	110	0%
113004	Residual Handling Facility's Decant Flow Modifications at Southwest WTP	822,000	-	380,000	380,000	1,822	853,219	1,822	855,041	104%
113006	SW WTP Chloring Scrubber	4,753,000	-	-	-	129,973	-	129,973	129,973	3%
113007	Architectural and Building Mechanical	98,000	-	-	-	-	-	-	-	0%
	Springwells Water Treatment Plant 1958 Filter									
114001	Rehabilitation and Auxiliary Facilities	101,968,000	73,955,623	-	1,255,609	3,070,813	99,764,892	-	99,764,892	98%
	Springwells Water Treatment Plant - Low Lift and									
114002	High Lift Pump Station	174,835,000	2,080,861	5,985,000	6,308,877	3,415,254	-	5,496,115	5,496,115	3%
	Water Production Flow Metering Improvements at									
114003	NE, SW, and SPW WTP	8,482,000	6,331,921	80,000	713,282	1,853,607	-	8,185,528	8,185,528	97%
114005	Springwells WTP Admin Building Improvements	8,696,000	10,555	413,000	527,664	933,417	-	943,973	943,973	11%
114006	Replacement of Rapid Mix Units at Springwells WTF 1958 Process Train	1,031,000	0	61,000	61,000	9,390	1,021,039	9,390	1,030,429	100%



Water System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate from FY 2021 - 2025 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through June 30, 2020	Life to Date Capitalization Through June 30, 2020	CWIP Balance June 30, 2020	June 30, 2020	Life to Date Activity / Total Project Plan Estimate
114007	Powder Activated Carbon Systems	4,188,000	-	-	-	-	-	-	-	0%
114008	1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP Springwells Water Treatment Plant Service Area	14,241,000	195,644	4,153,000	2,185,000	3,186,265	-	3,381,909	3,381,909	24%
114009	Redundancy Study	311,000	_	_	_	_	_	_	_	0%
114010	Yard Piping Improvements	112,613,000	3,947	_	_	237,189	-	241,135	241,135	0%
11-1010	Steam, Condensate Return, and Compressed Air	112,013,000	3,547			237,103		241,133	241,133	0,0
114011	Piping Improvements at Springwells WTP Springwells Water Treatment Plant 1930 Filter	23,898,000	2,373,087	5,392,000	5,453,373	7,710,647	-	10,083,734	10,083,734	42%
114012	Building-Roof Replacement	3,911,000	-	-	-	-	3,911,148	-	3,911,148	100%
114013	Springwells Reservoir Fill Line Improvements	4,821,000	2,829,864	1,551,000	1,551,000	756,192	-	3,586,056	3,586,056	74%
114015	Emergency Grating Replacement at Springwells WTP	3,366,000	-	-	-	-	3,365,903	-	3,365,903	100%
114016	Springwells Water Treatment Plant 1958 Settled Water Conduits Concrete Pavement Replacement	1,764,000	802	206,000	206,000	94,061	-	94,862	94,862	5%
114017	Springwells Water Treatment Plant Flocculator Drive Replacement	9,296,000	_		_	1,071		1,071	1,071	0%
	Springwells Water Treatment Plant - Service Building Electrical Substation and Miscellaneous									
114018	Improvements	1,508,000	-	-	-	-	-	-	-	0%
115001	Yard Piping, Valves and Venturi Meters Replacement at Water Works Park	72,019,000	1,758,683	17,333,000	17,464,500	1,080,444	-	2,839,127	2,839,127	4%
115003	Comprehensive Condition Assessment at Waterworks Park WTP	582,000	513,538	153,000	-	(513,538)	-	(0)	-	0%
115004	ater Works Park WTP Chlorine System Upgrade	7,440,000	6,685,754	2,047,000	2,068,500	271,279	6,957,032	-	6,957,032	94%
115005	WWP WTP Building Ventilation Improvements	10,141,000	-	507,000	507,000	1,126	_	1,126	1,126	0%
115006	Water Works Park Site/Civil Improvements	5,643,000	-	-	-	-	-	-	-	0%
	Pennsylvania, Springwells and Northeast Raw Water	r								
116002	Supply Tunnel Improvements based on	61,245,000	13,302,850	5,467,000	5,467,000	5,210,819	-	18,513,669	18,513,669	30%
	Parallel 42-Inch Main in 24 Mile Road from									
122001	Rochester Station to Romeo Plank Road Replacement of Five (5) PRV Pits of Treated Water	33,246,000	33,241,721	-		-	33,241,721		33,241,721	100%
122002	Transmission System	2,790,000	-	-	-	-	2,785,001	-	2,785,001	100%
122003	New Waterworks Park to Northeast Transmission Main	157,526,000	2,615,193	871,000	658,233	2,574,953	-	5,190,146	5,190,146	3%
	96-inch Main Relocation, Isolation Valves									
122004	Installations, and New Parallel Main	144,871,000	1,787,389	5,000,000	2,314,936	28,915	-	1,816,305	1,816,305	1%
122005	Replacement Schoolcraft Watermain	18,106,000	141,171	8,100,000	2,328,644	1,240,607	-	1,381,778	1,381,778	8%
122006	Transmission System Water Main Work-Wick Road Parallel Water Main	22,338,000	416,882	18,028,000	8,401,361	5,486,039	-	5,902,921	5,902,921	26%



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	Design and Construction of a new Newburgh Road									
122007	24" Main along Newburgh Road between Ch	21,457,000	783	-	-	1,022	-	1,805	1,805	0%
	Water System Improvements in Joy Road from									
122009	Southfield Road to Trinity	149,000	106,881	-	-	-	106,881	-	106,881	72%
122011	Park-Merriman Water Main-Final Phase	7,625,000	986,024	4,737,000	3,937,000	4,235,897	-	5,221,921	5,221,921	68%
122012	36-inch Water Main in Telegraph Road	9,959,000	-	-	-	-	9,986,284	-	9,986,284	100%
122013	Lyon Township Transmission Main Extension Project	73,941,000	637,635	751,000	2,628,978	3,005,269		3,642,904	3,642,904	5%
122015	Downriver Transmission Loop	37,744,000	24,251	297,000	820,965	200,658		224,909	224,909	1%
122010	7 Mile/Nevada Transmission Main Rehab and	37,744,000	24,231	297,000	820,903	200,036	-	224,303	224,909	1/0
122017	Carrie/Nevada Flow Control Station	60,577,000		1,040,000	1,040,000	3,414	_	3,414	3,414	0%
122017	Garland, Hurlbut, Bewick Water Transmission	00,377,000	<u> </u>	1,040,000	1,040,000	3,414		3,414	3,414	076
122018	System Rehabilitation	44,577,000			_	_	_			0%
132001	Wick Road Station Rehabilitation	135,000	135,073				135,073		135,073	100%
132001	Isolation Gate Valves for Line Pumps for West	133,000	153,075	<u> </u>			153,075	<u> </u>	155,075	100%
132003	Service Center Pumping Station	1,979,000	247,754	490,000	1,522,316	1,496,437	1,742,479	1,712	1,744,191	88%
132003	Hydraulic Surge Control for North Service Center	1,979,000	247,734	490,000	1,322,310	1,430,437	1,742,473	1,712	1,744,131	0070
132004	Pumping Station	215,000	214,771		_		214,771	_	214,771	100%
132004	Pressure and Control Improvements at the Electric,	213,000	214,771	<u> </u>			214,771	<u> </u>	214,771	100%
132006	Ford Road, Michigan, and West Chica	3,279,000	289,594	2,515,000	2,399,138	1,594,308	_	1,883,902	1,883,902	57%
132000	Energy Management: Freeze Protection Pump	3,279,000	203,334	2,313,000	2,399,138	1,334,308		1,003,302	1,003,902	3770
132007	Installation at Imlay Pumping Station	5,199,000	97,185	592,000	472,742	70,480	_	167,665	167,665	3%
132007	Needs Assessment Study for all Water Booster	3,133,000	37,103	332,000	772,772	70,400		107,003	107,003	370
132008	Pumping Stations	1,838,000	1,838,406	_	_	(1,838,406)	_	_	_	0%
132000	West Service Center/Duval Rd Division Valve	1,030,000	1,030,400			(1,030,400)				070
132010	Upgrades	37,705,000	607,504	2,620,000	600,000	1,852,528	_	2,460,032	2,460,032	7%
132012	Ypsilanti PS Improvements	31,617,000	20,539	585,000	510,490	313,050	_	333,589	333,589	1%
132014	Adams Road Booster Pumping Improvements	27,536,000	-	-	-	83,262	_	83,262	83,262	0%
132015	Newburgh BPS	30,677,000	2,811	16,000	458,245	347,643	_	350,454	350,454	1%
132016	North Service Center BPS Improvements	45,342,000	-,	-	-	266,392	_	266,392	266,392	1%
132017	North Service Center BPS - On-Site & Off	-	-	6,000	6,000	-	_	,	-	100%
132018	Schoolcraft BPS	_	-	-	-	47,317	_	47,317	47,317	100%
132019	Wick Road BPS - Switchgear	2,940,000	-	-	-	56,912	-	56,912	56,912	2%
132020	Franklin BPS - Isolation Gate Valves	2,442,000	-	-	-	93,160	-	93,160	93,160	4%
132021	Imlay BPS - Replace VFDs, Pumps & Motors	13,000	-	-	-	227,346	-	227,346	227,346	1749%
132022	Joy Road BPS - Replace Reservoir Pumps	55,000	-	-	-	71,380	-	71,380	71,380	130%
	Northwest Booster Station Yard Piping									
132025	Improvements	1,000	971	-	-	19,183	-	20,155	20,155	2015%
132026	Franklin Pumping Station Valve Replacement	1,411,000	-	-	-	782,409	-	782,409	782,409	55%
170100	Allowance: WTP/Pump Station	70,164,000	-	3,000,000	3,000,000	-	-	-	-	0%
	Water Production Plant Flow Mettering									
170102	Improvements at NE, SP & SW WTP	-	359,259	-	-	13,115	-	372,374	372,374	100%
	Belle Isle Water Supply Intake and Ice Boom		•					•	,	
170103	Improvements	-	3,278	-	_	-	286,596	3,278	289,874	100%
	•							•		



Water System Construction Work-in-Progress Quarterly Report

					FY 2020 Board		Life to Date		Life to Date	Life to Date
		Total Project Plan		FY 2020	Approved CIP	FY 2020	Capitalization		Activity	Total
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	· · · · · · · · · · · · · · · · · · ·	Project Plan
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2019	Approved CIP	Amendments	June 30, 2020	June 30, 2020	June 30, 2020	June 30, 2020	Estimate
	Orion and Newburgh Pumping Stations									
170104	Improvements	-	170,664	-	-	7,846	2,086,335	(0)	2,086,335	100%
170110	Raw Water Sampling Improvements	-	2,926	-	-	(2,926)	-	-	-	100%
170121	Franklin PS Valve Rehab	-	38,681	-	-	-	-	38,681	38,681	100%
170122	Meter Pit at Brownstown Township	-	133,306	-	-	-	-	133,306	133,306	100%
	As Needed Construction Materials, Environmental									
170200	Media and Special Allowance	1,815,000	-	572,000	572,000	-	-	-	-	0%
170201	Construction & Environmental Testing	-	63,443	-	-	(63,443)	-	-	-	100%
170300	Water Treatment Plant Automation Program	18,728,000	-	1,561,000	1,561,000	-	-	-	-	0%
170301	Water Plant Automation	-	1,657,645	-	-	97,497	-	1,755,142	1,755,142	100%
170400	Water Transmission Improvement Program	28,157,000	-	1,500,000	1,500,000	-	-	-	-	0%
170401	Emergency Bypass Around Ypsilanti Station	-	1,643,165	-	-	19,450	-	1,662,615	1,662,615	100%
	Transmission System Valve Assessment and									
170500	Rehabilitation/Replacement Program	26,469,000	-	4,000,000	4,000,000	-	-	-	-	0%
170502	Transmission System Valve Assessment and Rehabili	1 -	0	-	-	2,386,195	6,363,896	2,051,843	8,415,739	100%
170503	Transmission System Valve Assessment and Rehabili	-	-	-	-	393,559	-	393,559	393,559	100%
	Water Transmission Main Asset Assessment									
170600	Program	30,753,000	-	3,000,000	3,000,000	-	-	-	-	0%
	Reservoir Inspection, Design and Rehabilitation									
170800	Program	59,076,000	-	5,128,000	632,000	-	-	-	-	0%
170801	Reservoir Inspection, Design and Rehabilitation	-	456,574	-	4,513,500	2,158,996	-	2,615,570	2,615,570	100%
	Suburban Water Meter Pit Rehabilitation and Meter									
170900	Replacement Program	10,301,000	-	4,000,000	925,000	-	-	-	-	0%
	Suburban Water Meter Pit Rehabilitation and Meter									
170901	Replacement	-	1,237,565	-	3,075,000	3,292,318	-	4,529,883	4,529,883	100%
170902	Brownstown Meter Pit Rehabilitation	-	-	-	-	76,390	-	76,390	76,390	100%
171500	Roof Replacement - Var Facilities Program	23,673,000	-	2,657,000			-			0%
171501	Roof Replacements - Var Facilities Program	-	119,283	-	3,125,489	3,013,352	360,430	2,772,205	3,132,635	100%
341001	Security Infrastructure Improvements	10,650,000	962,673	-	1,173,179	3,014,738	-	3,977,412	3,977,412	37%
351001	Water Facility Lighting Renovations	556,000	6,211	250,000	250,000	457	-	6,667	6,667	1%
201002	Data Contar Balishility/Availahility Impressed		16.000				16.000		16.000	1000/
361002	Data Center Reliability/Availability Improvements	-	16,080	-	-	-	16,080	-	16,080	100%
380600 380601	General Engineering Services Allowance	56,000	674	-	-	(674)	-	-	-	0% 100%
200001	General Engineering Services Allowance		0/4	-		(074)	-	-	-	100%
	As peeded Engineering Consises for Concrete									
	As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing									
380700	Services, and Related Services Allowance	2,130,000	_	_		_	_	_		0%
300700	Energy Management: Electric Metering	2,130,000	-	-	<u> </u>	<u> </u>	<u> </u>	-	-	0%
381000	Improvement Program	3,435,000				_	_	_	_	0%
Grand Total	improvement riogiani	\$ 1,970,283,000 \$	175,031,084 \$	143.247.000 \$	124,916,757	\$ 76,542,465 \$	207,438,850 \$	126,197,522 \$	333,636,372	17%
Grana rotar		Ψ 1,770,203,000 Ψ	<u> </u>	t Amendments \$	(18,330,243)	Ψ /0,512,105 Φ	207, 100,000 \$	120,177,022 φ	333,030,372	1770





FY 2020 Project Amendment Summary

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2020 Capital Improvement Plan.

\$18.3 million of Capital Reserve project amendments have been prepared as of June 30, 2020 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.



Great Lakes Water Authority Water System Project Amendment Summary Unaudited Activity For the Fiscal Year Ended June 30, 2020

Water System Construction Work-in-Progress Quarterly Report

	F	Program /		
Project	Project Name	Allowance	Capital Reserve	Grand Total
111001	Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements	\$ -	\$ 92,500	\$ 92,500
111004	Electrical Tunnel Rehabilitation at Lake Huron WTP	-	(3,020,786)	(3,020,786)
111006	Replacement of Filter Instrumentation and Raw Water Flow Metering Improvements at Lake	-	200,468	200,468
111007	Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements	-	(429,446)	(429,446)
112005	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits	-	144,000	144,000
113002	High Lift Pump Discharge Valve Actuators Replacement at Southwest WTP	-	152,000	152,000
114001	Springwells Water Treatment Plant 1958 Filter Rehabilitation and Auxiliary Facilities	-	1,255,609	1,255,609
114002	Springwells Water Treatment Plant - Low Lift and High Lift Pump Station	-	323,877	323,877
114003	Water Production Flow Metering Improvements at NE, SW, and SPW WTP	-	633,282	633,282
114005	Springwells WTP Admin Building Improvements	-	114,664	114,664
114008	1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP	-	(1,968,000)	(1,968,000)
114011	Steam, Condensate Return, and Compressed Air Piping Improvements at Springwells WTP	-	61,373	61,373
115001	Yard Piping, Valves and Venturi Meters Replacement at Water Works Park	131,500	-	131,500
115003	Comprehensive Condition Assessment at Waterworks Park WTP	(153,000)	-	(153,000)
115004	Water Works Park WTP Chlorine System Upgrade	21500	0	21500
122003	New Waterworks Park to Northeast Transmission Main	-	(212,767)	(212,767)
122004	96-inch Main Relocation, Isolation Valves Installations, and New Parallel Main	-	(2,685,064)	(2,685,064)
122005	Replacement Schoolcraft Watermain	-	(5,771,356)	(5,771,356)
122006	Transmission System Water Main Work-Wick Road Parallel Water Main	-	(9,626,639)	(9,626,639)
122011	Park-Merriman Water Main-Final Phase	-	(800,000)	(800,000)
122013	Lyon Township Transmission Main Extension Project	-	1,877,978	1,877,978
122016	Downriver Transmission Loop	-	523,965	523,965
132003	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station	-	1,032,316	1,032,316
132006	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica	-	(115,862)	(115,862)
132007	Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station	-	(119,258)	(119,258)
132010	West Service Center/Duval Rd Division Valve Upgrades	-	(2,020,000)	(2,020,000)
132012	Ypsilanti PS Improvements	-	(74,510)	(74,510)
132015	Newburgh BPS	-	442,245	442,245
170800	Reservoir Inspection, Design and Rehabilitation Program	(4,496,000)	-	(4,496,000)
170801	Reservoir Inspection, Design and Rehabilitation	4,496,000	17,500	4,513,500
170900	Suburban Water Meter Pit Rehabilitation and Meter Replacement Program	(3,075,000)	-	(3,075,000)
170901	Suburban Water Meter Pit Rehabilitation and Meter Replacement	3,075,000	-	3,075,000
171500	Roof Replacement - Var Facilities Program	-	(2,657,000)	(2,657,000)
171501	Roof Replacements - Var Facilities Program	-	3,125,489	3,125,489
341001	Security Infrastructure Improvements	-	1,173,179	1,173,179
Grand Total		\$ -	\$ (18,330,243)	\$ (18,330,243)



WASTEWATER SYSTEM

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2020-2024 and related CIP Plan for FY 2020 were based on anticipation of FY 2020 activity resulting in 75% of planned spend. The Water System spend for the period ending June 30, 2020 is 45.7% of the FY 2020 board approved CIP, 47.1% of the FY 2020 board approved CIP with project amendments, and 61% of the FY 2020 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2020 Board Approved CIP was amended from \$161,480,000 to \$156,884,005 is provided in the subsequent Project Amendment Summary section of this report.

Wastewater System Projects	FY 2019 CIP	FY 2019 Activity	FY 2019 Percentage	FY 2020 CIP	FY 2020 Activity (Unaudited)	FY 2020
FY 2019 Board Approved CIP FY 2019 Board Approved CIP With Project Amendments	\$ 105,183,000 100,264,934	82,133,532 82,133,532	78.1% 81.9%			
FY 2020 Board Approved CIP FY 2020 Board Approved CIP With Project Amendments FY 2020 Capital Spend Rate Assumption (SRA)			\$	161,480,000 156,884,005 121,110,000	73,826,521 73,826,521 73,826,521	45.7% 47.1% 61.0%



Construction Work-in-Progress Rollforward

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the CA&FR team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2020 4th quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
212006	PC-797	Rouge River Outfall Disinfection
260201	CON-149	Detroit River Interceptor
260203	SCP-CS-068	Conveyance System Interceptor Rehab
260601	CON-254	Oakwood Drain Valve Improvements
260610	1803113	Baby Creek MAU Replacement

\$177 million is in CWIP as of June 30, 2020 as shown in the table beginning on the next page.

The order of the report on the subsequent pages is in ascending order by CIP project number.



Wastewater System Construction Work-in-Progress Quarterly Report

Project	Project Name Roof Replacements - Var Facilities	Total Project Plan Estimate from FY 2021 - 2025 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through June 30, 2020	Life to Date Capitalization Through June 30, 2020	CWIP Balance June 30, 2020	Life to Date Activity Through June 30, 2020	Life to Date Activity / Total Project Plan Estimate
171501	Program	\$ - \$	- \$	- \$	83,000 \$	83,000 \$	83,000 \$	- \$	83,000	100%
	Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe									
211001	Gallery	55,069,000	45,368,717	7,982,000	7,982,000	7,517,734	-	52,886,451	52,886,451	96%
211002	Pump Station No. 2 Pumping Improvments	3,772,000	1,911,850	1,222,000	1,222,000	102,106	_	2,013,956	2,013,956	53%
211002	Pump Station 1 Rack & Grit and MPI	3,772,000	1,911,050	1,222,000	1,222,000	102,100	-	2,013,950	2,013,930	55%
211004	Sampling Station 1 Improvements	28,273,000	26,502,582	869,000	869,000	1,102,991	_	27,605,573	27,605,573	98%
211005	Pump Station No. 2 Improvements	34,050,000	1,002	-	-	(1,002)	-	0		0%
211006	Pump Station No. 1 Improvements	26,776,000	6,307	1,803,000	1,803,000	1,277,523	-	1,283,830	1,283,830	5%
211007	Replacement of Bar Racks and Grit Collection System at Pump Station No. 2	76,596,000	628	269,000	269,000	4,548	-	5,176	5,176	0%
211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines	10,825,000	200,048	2,950,000	3,950,000	1,429,629	-	1,629,677	1,629,677	15%
211009	Rehabilitation of the Circular Primary Clarifier Scum Removal System	13,249,000	30	-	-	2,705	-	2,734	2,734	0%
211010	Rehabilitation of Sludge Processing Complexes A and B	14,039,000	_	_	_	42,231	_	42,231	42,231	0%
211011	WRRF PS1 Screening and Grit Improvements	100,747,000	-	-	-	-	-	-	-	0%
	Study, Design, & Construction, Management Services for Modified Detroit River Outfall No. 2 -									
212002	WRRF	-	10,821,153	-	-	(1,853)	10,819,300	(0)	10,819,300	100%
212003	Aeration System Improvements	16,492,000	16,356,789	-	-	168,086	16,524,875	-	16,524,875	100%
212004	ProjectChlorination/Dechlorination Process Equipment Improvements PC-797 Rouge River Outfall Disinfection	5,766,000	192,917	2,345,000	2,903,000	3,610,223	-	3,803,140	3,803,140	66%
212006	and CS-1781 Oversight Consulting Services Contract	44,440,000	41,691,377	4,583,000	4,731,155	2,097,354	43,788,731	-	43,788,731	99%
212007	Rehabilitation of the Secondary Clarifiers	30,141,000	-	-	-	330	-	330	330	0%
212008	WRRF Rehabilitation of Intermediate Lift	81,514,000	-	229,000	229,000	16,175	-	16,175	16,175	0%
212009	WRRF Aeration Improvements 3 and 4	73,763,000	-	-	-	-	-	-	-	0%



Wastewater System Construction Work-in-Progress Quarterly Report

					FY 2020					Life to Date
		Total Project Plan Estimate from	CWIP Balance	FY 2020 Board	Board Approved CIP With Project	FY 2020 Activity through	Life to Date Capitalization Through	CWIP Balance	Life to Date Activity Through	Activity / Total Project Plan
Project	Project Name WRRF Conversion of Disinfection of all	FY 2021 - 2025 CIP	July 1, 2019	Approved CIP	Amendments	June 30, 2020	June 30, 2020	June 30, 2020	June 30, 2020	Estimate
	Flow to Sodium Hypochlorite and									
212010	Sodium Bisulfite	5,986,000								0%
212010	Journal District	3,360,000	-	-	-	<u> </u>	-	-	-	076
213002	Rehabilitation of Central Offload Facility	_	_	7,696,000	7,696,000	_	_	_	_	100%
	Complex I Incinerators Decommissioning			7,050,000	7,030,000					10070
213005	and Reusability	_	369,648	_	_	22	369.671	_	369,671	100%
213003	Improvements to Sludge Feed Pumps at		303,040				303,071		303,071	10070
213006	Dewatering Facilities	4,651,000	4,856	_	_	894	_	5,750	5,750	0%
	Construction of the Improved Sludge	.,,	,,,,,,,						5,	
	Conveyance and Lighting System at the									
213007	WWTP	19,946,000	10,809,195	8,711,000	9,011,000	6,069,307	_	16,878,502	16,878,502	85%
	Rehabilitation of the Wet and Dry Ash	, ,		, ,				, ,	, ,	
213008	Handling Systems	18,543,000	85	111,000	111,000	111,251	-	111,335	111,335	1%
	Phosphorous Recovery Facility at the									
213009	WWRF	-	(99)	-	-	99	-	-	-	100%
	Relocation of Industrial Waste Division									
214001	and Analytical Laboratory Operations	14,001,000	17,017	7,567,000	8,367,000	8,284,771	2,282,260	8,301,788	10,584,048	76%
	Rehabilitation of Various Sampling Sites									
	and PS# 2 Ferric Chloride System at									
216004	WWTP	5,729,000	814,368	3,921,000	3,921,000	823,148	-	1,637,516	1,637,516	29%
	Rehabilitation of the Screened Final									
	Effluent (SFE) Pump Station and									
216006	Secondary Water System	24,512,000	17,581	323,000	323,000	55,893	-	73,474	73,474	0%
	DTE Primary Electric 3rd Feed Supply									
216007	Line to the WRRF	5,823,000	2,194,169	1,381,000	1,381,000	160,827	543,500	2,354,996	2,898,496	50%
	Rehabilitation of Screened Final Effluent									
216008	(SFE) Pump Station	24,954,000	-	1,091,000	1,091,000	5,671	-	5,671	5,671	0%
216009	Logistics & Material Facility	2,768,000	-	-	-	164,904	-	164,904	164,904	6%
216010	WRRF Facility Optimization	10,338,000	-	-	-	4,312	-	4,312	4,312	0%
	Intercommunity Relief Sewer									
	Modifications in Detroit Oakwood									
222001	District	53,512,000	-	-	-	-	-	-	-	0%
	Detroit River Interceptor Evaluation and									
222002	Rehabilitation	81,676,000	10,611,644	10,000,000	4,049,445	9,539,452	-	20,151,096	20,151,096	25%
	North Interceptor East Arm (NIEA)									
222003	Evaluation and Rehabilitation	-	-	15,000,000	15,000,000	-	-	-	-	100%
	Collection System Valve Remote									
222004	Operation Structures Improvements	41,126,000	4,246	3,500,000	3,500,000	464,622	-	468,867	468,867	1%
	Fairview Pumping Station - Replace Four									
232001	Sanitary Pumps	37,276,000	3,475,448	18,000,000	16,265,405	10,798,158	-	14,273,606	14,273,606	38%



Wastewater System Construction Work-in-Progress Quarterly Report

Project Project Name											
	Project	•	Estimate from		Board	Board Approved CIP With Project	Activity through	Capitalization Through		Activity Through	Life to Date Activity / Total Project Plan Estimate
2000	232002	•	222,099,000	5 573 334	17.029.000	17.229.000	1.711.297	57.734	7.284.631	7.342.366	3%
CONDITION ASSESSMENT AT RULE HILL	LULUUL	improvements	222,033,000	3,373,334	17,023,000	17,223,000	1,711,237	37,734	7,204,031	7,342,300	370
Collection System in System Storage Collection System in System Storage Collection System in System Storage Collection System Storage	232003	Northeast Pump Station Improvements	-	-	7,000,000	7,000,000	-	-	-	-	100%
Collection System In System Storage 233002 Devices SDos Improvements 235 235 235 100		CONDITION ASSESSMENT AT BLUE HILL									
233002 Devices(ISDa) Improvements - 235 - - - - 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235 235	232004	PUMP STATION	286,000	-	-	-	-	-	-	-	0%
Mastewater System Wide	233002		-	235	-	-	-	-	235	235	100%
Mastewater System Wide											
Water Resource Recovery Facility (WRRF), Lift Station & Wastewater (Collection System Allowance	233003	Wastewater System Wide	46,797,000	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	-	<u> </u>	0%
WRRFs Lift Station & Wastewater	251002	, 5	-	71	-	-	(71)	-	-	-	100%
Sewer and Interceptor Evaluation and Rehabilitation Program 154,643,000 - 15,000,000 6,550,048 - - - - - - - - -	260100	(WRRF), Lift Station & Wastewater			1 100 000	1 100 000					100%
260201 Conveyance System Interceptor Rehab - 4,810,116 - 7,400,000 5,515,906 18,542,127 960,448 19,502,575 10 260202 Conveyance System Interceptor Rehab - 4,810,116 - 7,400,000 5,515,906 18,542,127 960,448 19,502,575 10 260202 Conveyance System Interceptor Rehab - 17,031 - - 6,840 - 23,871 23,871 10 260203 Conveyance System Interceptor Rehab - 4,642,133 - - 4,642,133 - - 4,642,133 - - - 4,642,133 - - - 4,642,133 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th< td=""><td>200100</td><td>·</td><td>-</td><td><u> </u></td><td>1,100,000</td><td>1,100,000</td><td>-</td><td>-</td><td>-</td><td><u> </u></td><td>100%</td></th<>	200100	·	-	<u> </u>	1,100,000	1,100,000	-	-	-	<u> </u>	100%
260202 Conveyance System Interceptor Rehab - 17,031 - - 6,840 - 23,871 23,871 10 260203 Conveyance System Interceptor Rehab 4,642,133 - - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - 4,642,133 - - 26020 5000 - - - - - - 760 76 - - - - - - - - - - - - - - - - - - - -<	260200	·	154,643,000	_	15,000,000	6,550,048	-	-	-	-	0%
260204 Conveyance System Interceptor Rehab	260201	Conveyance System Interceptor Rehab	-	4,810,116	-	7,400,000	5,515,906	18,542,127	960,448	19,502,575	100%
Energy Services for Rehabilitation of Conveyance Sewer System - 133 - 1,049,952 912,609 - 912,742 912,742 1026020 NWI Outfall Rehabilitation	260202	Conveyance System Interceptor Rehab	-	17,031	-	-	6,840	-	23,871	23,871	100%
260204 Conveyance Sewer System - 133 - 1,049,952 912,609 - 912,742 912,742 10 260205 NWI Outfall Rehabilitation - - - - - 79,226 - 79,226 79,226 79,226 10 260500 CSO Outfall Rehab 64,406,000 - 15,102,000 10,302,925 - - - - - 260503 Collection System Backwater Gates 6,406,000 - 760 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <	260203			4,642,133	-	-	-	4,642,133	-	4,642,133	100%
260205 NWI Outfall Rehabilitation - - - - 79,226 - 79,226 79,226 79,226 10 260500 CSO Outfall Rehab 64,406,000 - 15,102,000 10,302,925 - - - - - 260503 Collection System Backwater Gates - 760 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>260204</td> <td><u> </u></td> <td><u>-</u></td> <td>133</td> <td>_</td> <td>1.049.952</td> <td>912.609</td> <td>_</td> <td>912.742</td> <td>912.742</td> <td>100%</td>	260204	<u> </u>	<u>-</u>	133	_	1.049.952	912.609	_	912.742	912.742	100%
260503 Collection System Backwater Gates - 760 - - - - 760 760 10 260504 Rehabilitation of Outfalls - Phase II - - - 3,000,000 2,202,000 - 2,202,000 2,202,000 10 260505 Rehabilitation of Outfalls - Phase IV - - - 1,799,075 1,586,323 - 1,586,323 1,586,323 1,586,323 10 260506 Pilot Regulator Orifice Expansion - - - - - - - 7,641 - 7,8641 7,8641 7,8641 7,8641 7,8641 10 260508 B-39 Outfall Rehab - - - - - - - 498 - 498 498 10 260509 B-40 Outfall Rehab - - - - - - - - - - - - - - - - - -			-	-	-		,	-			100%
260504 Rehabilitation of Outfalls - Phase II - - - 3,000,000 2,202,000 - 2,202,000 2,202,000 10 260505 Rehabilitation of Outfalls - Phase IV - - - 1,799,075 1,586,323 - 1,586,323 1,586,323 10 260506 Pilot Regulator Orifice Expansion - - - - - 78,641 - 78,641 78,641 78,641 78,641 10 260508 B-39 Outfall Rehab - - - - - 498 - 498 498 10 260509 B-40 Outfall Rehab - - - - - - - 66,293 - 66,293 10 260600 CSO Facilities Improvements 152,943,000 - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - -			64,406,000	-	15,102,000	10,302,925		-	-		0%
260505 Rehabilitation of Outfalls - Phase IV - - - 1,799,075 1,586,323 - 1,586,323 1,586,323 10 260506 Pilot Regulator Orifice Expansion - - - - - 78,641 - 78,641 78,641 78,641 10 260508 B-39 Outfall Rehab - - - - - 498 - 498 498 10 260509 B-40 Outfall Rehab - - - - - - 66,293 - 66,293 66,293 66,293 10 260600 CSO Facilities Improvements 152,943,000 - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	260503	Collection System Backwater Gates	-	760	-	-	-	-	760	760	100%
260506 Pilot Regulator Orifice Expansion - - - - - 78,641 - 78,641 78,641 10 260508 B-39 Outfall Rehab - - - - - - 498 - 498 498 10 260509 B-40 Outfall Rehab - - - - 66,293 - 66,293 66,293 10 260600 CSO Facilities Improvements - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	260504		-	-	-	3,000,000	2,202,000	-	2,202,000	2,202,000	100%
260508 B-39 Outfall Rehab - - - - - 498 - 498 498 10 260509 B-40 Outfall Rehab - - - - 66,293 - 66,293 10 260600 CSO Facilities Improvements 152,943,000 - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td>100%</td>			-	-	-				<u> </u>		100%
260509 B-40 Outfall Rehab - - - - - - 66,293 - 66,293 10 260600 CSO Facilities Improvements 152,943,000 - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -											100%
260600 CSO Facilities Improvements 152,943,000 - 5,604,000 2,940,613 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -						-					100%
260601 Oakwood Drain Valve Improvements - 539,857 - 33,000 141,778 655,436 26,199 681,635 10 260602 CSO Fire Alarm System Improvements - 812,407 - - 185,211 997,619 - 997,619 10 260603 Conner Creek CSO Basin Rehab - 4,404,704 - 1,255,387 2,651,663 - 7,056,367 7,056,367 10 260605 CSO Faciliaties CA - 16,914 - - (16,914) - - - 10						-	66,293		66,293		100%
260602 CSO Fire Alarm System Improvements - 812,407 - - 185,211 997,619 - 997,619 10 260603 Conner Creek CSO Basin Rehab - 4,404,704 - 1,255,387 2,651,663 - 7,056,367 7,056,367 10 260605 CSO Faciliaties CA - 16,914 - - (16,914) - - - 10	260600	CSO Facilities Improvements	152,943,000	-	5,604,000	2,940,613	-	-	-	-	0%
260603 Conner Creek CSO Basin Rehab - 4,404,704 - 1,255,387 2,651,663 - 7,056,367 7,056,367 10 260605 CSO Faciliaties CA - 16,914 - - - - - 10	260601	Oakwood Drain Valve Improvements	-	539,857	-	33,000	141,778	655,436	26,199	681,635	100%
260603 Conner Creek CSO Basin Rehab - 4,404,704 - 1,255,387 2,651,663 - 7,056,367 7,056,367 10 260605 CSO Faciliaties CA - 16,914 - - - - - 10	260602	CSO Fire Alarm System Improvements	-	812,407	_	-	185,211	997,619	-	997,619	100%
		· · · · · ·		· · · · · · · · · · · · · · · · · · ·	-	1,255,387			7,056,367		100%
260606 Puritan Fenkell Roof Replacement - 1,944 344,596 346,540 - 346,540 10		CSO Faciliaties CA	-		-			-	-	-	100%
	260606	Puritan Fenkell Roof Replacement	-		-	-		346,540	-	346,540	100%



Wastewater System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate from FY 2021 - 2025 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through June 30, 2020	Life to Date Capitalization Through June 30, 2020	CWIP Balance June 30, 2020	Life to Date Activity Through June 30, 2020	Life to Date Activity / Total Project Plan Estimate
260607	Lieb SDF Electrical Improvements		241,513	Approved CIF	450,000	791,174	1,032,508	179	1,032,687	100%
260608	Seven Mile RTB - Roof Replacement	_	12,451		300,000	484,248	496,699		496,699	100%
	oeven mile mo moon neplacement		12, 131		300,000	10 1,2 10	.50,055		130,033	20070
260609	Seven Mile RTB - Parking Lot / Sitework	-	23,197	-	400,000	346,362	-	369,559	369,559	100%
260610	Baby Creek MAU Replacement		1,773	-	-	273,378	275,151	-	275,151	100%
260611	HVAC Improvements At Lieb SDF	-	5,283	-	225,000	90,603	-	95,887	95,887	100%
260613	Baby Creek HVAC Improvements		76	-	-	51,262	-	51,338	51,338	100%
	· ·					,		,	•	
260614	CSO Facilities Structural Improvements	-	335,143	-	-	(31,349)	-	303,795	303,795	100%
	PF & Lieb CSO Facilities Site & Drainage									
260615	Improvements	-	-	-	-	109,660	-	109,660	109,660	100%
	Baby Creek SCO Anchor & Wedge									
260616	Improvements	-	-	-	-	666,495	-	666,495	666,495	100%
	St. Aubin Chemical Disinfection									
260617	Improvements	-	-	-	-	250,348	-	250,348	250,348	100%
260618	Oakwood HVAC Improvements	-	-	-	-	75,672	-	75,672	75,672	100%
	Control System Upgrade At St. Aubin,									
260619	Lieb and 7 Mile	-	-	-	-	61,593	-	61,593	61,593	100%
270001	Pilot CSO Netting Facility	7,769,000	-	-	-	-	-	-	-	0%
	Meldrum Sewer Diversion and VR-15									
270002	Improvements	6,079,000	-	-	-	-	-	-	-	0%
270003	Long Term CSO Control Plan	5,794,000	-	-	-	3,545	-	3,545	3,545	0%
	Baby Creek Outfall Improvements									
277001	Project	2,237,000	-	-	-	2,283	-	2,283	2,283	0%
331002	Roofing Systems Replacement at GLWA Wastewater Treatment Plant, CSO Retention Treatment Basins (RTB) and Screening Disinfection Facilities (SDF)	9,745,000	802,470	1,092,000	1,092,000	320,586	1,123,056		1,123,056	12%
341001	Security Infrastructure Improvements	-	102,924	-	-	930,283	-	1,033,207	1,033,207	100%
341002	Security Infrastructure Improvements	2,630,000	-	-	-	-	-	-	-	0%
380600	General Engineering Services Allowance	(51,000)	-	-	-	-	-	-	-	0%
380601	General Engineering Services Allowance	-	632	-	-	(632)	-	-	-	100%
201000	Energy Management: Electric Metering	2 425 000								00/
381000 Grand Total	Improvement Program	3,435,000 \$ 1,645,165,000 \$	102716650 \$	161 490 000 \$	156 004 005 \$	73,826,521 \$	278,196,946 \$	177,022,887 \$	455,219,833	0% 28%
drailu Total		\$ 1,045,105,000 \$		161,480,000 \$ ct Amendments \$	156,884,005 \$ (4,595,995)	/3,820,321 \$	278,190,940 \$	1//,022,88/ \$	455,419,833	28%





FY 2020 Project Amendment Summary

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2020 Capital Improvement Plan.

\$4.6 million of Capital Reserve project amendments have been prepared as of June 30, 2020 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.



Great Lakes Water Authority Wastewater System Project Amendment Summary Unaudited Activity For the Fiscal Year Ended June 30, 2020

		Program /		
Project	Project Name	Allowance	Capital Reserve	Grand Total
171501	Roof Replacements - Var Facilities Program	\$ -	\$ 83,000	\$ 83,000
211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines	-	1,000,000	1,000,000
212004	ProjectChlorination/Dechlorination Process Equipment Improvements	-	558,000	558,000
212006	PC-797 Rouge River Outfall Disinfection and CS-1781 Oversight Consulting Services Contract	-	148,155	148,155
213007	Construction of the Improved Sludge Conveyance and Lighting System at the WWTP	-	300,000	300,000
214001	Relocation of Industrial Waste Division and Analytical Laboratory Operations	-	800,000	800,000
222002	Detroit River Interceptor Evaluation and Rehabilitation	-	(5,950,555)	(5,950,555)
232001	Fairview Pumping Station - Replace Four Sanitary Pumps	-	(1,734,595)	(1,734,595)
232002	Freud and Connor Creek Pump Station Improvements	-	200,000	200,000
260200	Sewer and Interceptor Evaluation and Rehabilitation Program	(8,449,952)	-	(8,449,952)
260201	Conveyance System Interceptor Rehab	7,400,000	-	7,400,000
260204	Energy Services for Rehabilitation of Conveyance Sewer System	1,049,952	-	1,049,952
260500	CSO Outfall Rehab	(4,799,075)	-	(4,799,075)
260504	Rehabilitation of Outfalls - Phase II	3,000,000	-	3,000,000
260505	Rehabilitation of Outfalls - Phase IV	1,799,075	-	1,799,075
260600	CSO Facilities Improvements	(2,663,387)	-	(2,663,387)
260601	Oakwood Drain Valve Improvements	33,000	-	33,000
260603	Conner Creek CSO Basin Rehab	1,255,387	-	1,255,387
260607	Lieb SDF Electrical Improvements	450,000	-	450,000
260608	Seven Mile RTB - Roof Replacement	300,000	-	300,000
260609	Seven Mile RTB - Parking Lot / Sitework	400,000	-	400,000
260611	HVAC Improvements At Lieb SDF	225,000	-	225,000
Grand Total		\$ -	\$ (4,595,995)	\$ (4,595,995)