

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups**

Appendix A: Facility Groups for Facilities with Fire Alarm, Sprinkler, and/or Fire Suppression Systems

Facility Group 1 - Combined Sewer Overflow (CSO) Basins		
Item	Facility Name	Facility Address
1	Baby Creek CSO	9545 Dix Road Dearborn, MI 48120-0000
2	Belle Isle CSO	2 Pleasure Drive Detroit, MI 48207-0000
3	Conner Creek CSO	11900 Feud Street Detroit, MI 48214-3409
4	Hubbell-Southfield CSO	16540 Rodunda Drive Dearborn, MI 48120-1157
5	Leib CSO	2188 Mount Elliott Street Detroit, MI 48207-0000
6	Oakwood CSO	12082 Pleasant Street Detroit, MI 48207-0000
7	Puritan Fenkell CSO	23675 Fenkell Street Detroit, MI 48223-1484
8	Seven Mile CSO	19272 Shiawassee Detroit, MI 48219-0000
9	St. Aubin CSO	2200 Atwater Street Detroit, MI 48223-1484

Fire Alarm Systems
Fire Alarm/Detection
X
X
X
X
X
X
X
X
X

Sprinkler Systems			
Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System
	X		
X	X	X	
	X	X	X
X	X	X	

Fire Suppression Systems			
Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chemical
X			
X			
X			
X			
X			
X			
X			
X			

Facility Group 2 - Water Resources Recovery Facility		
Item	Facility Name	Facility Address
1	WRRF	9300 West Jefferson Ave, Detroit, MI 48209

Fire Alarm Systems
Fire Alarm/Detection
X

Sprinkler Systems			
Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System
X	X		

Fire Suppression Systems			
Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chemical
X			X

Facility Group 3 - Water Treatment Plants		
Item	Facility Name	Facility Address
1	Water Works Park	
2	Lake Huron Water Plant	
3	Northeast Water Plant	
4	Southwest Water Plant	
5	Springwells Water Plant	9300 West Jefferson Ave, Detroit, MI 48209

Fire Alarm Systems
Fire Alarm/Detection
X
X
X
X

Sprinkler Systems			
Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System
X			
X			
X			

Fire Suppression Systems			
Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chemical
X			X
X			
X			
X			
X			X

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. A cell with an 'X' indicates an existing fire alarm, sprinkler, and/or fire suppression system is installed at the facility. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
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Appendix B: Bid Table - Bid Tab for Labor Rates, Service Rates, Equipment Rental Rates, Riders and Other Incidental Rates for Items Not Included with JCI Tiered Service Plans Selected

	Normal Weekday (M-F) - Normal Working Hours (7AM to 5PM)	Normal Weekday (M-F) - Premium Working Hours (5PM to 7AM)	Weekend - Saturday Premium Working Hours (12AM to 12AM)	Weekend - Sunday Premium Working Hours (12AM to 12AM)	GLWA Holiday - Premium Working Hours (12AM to 12AM)	Emergency Call - Premium Working Hours (12AM to 12AM)
Hourly Labor Rates:						
Trained/Certified Fire Alarm Supervisor (\$):						
Trained/Certified Fire Alarm Service Technician (\$):						
Trained Fire Alarm Inspector (\$):						
Master Electrician/Foreman (\$):						
Journeyman Electrician (\$):						
Trained/Certified Sprinkler Supervisor (\$):						
Trained/Certified Sprinkler Service Technician (\$):						
Trained Sprinkler Service Inspector (\$):						
Sprinkler Fitter (\$):						
Trained/Certified Fire Suppression Supervisor (\$):						
Trained Fire Suppression Inspector (\$):						
Temporary Staffing for Manual Fire Watch (\$):						

	Normal Weekday (M-F) - Normal Working Hours (7AM to 5PM)	Normal Weekday (M-F) - Premium Working Hours (5PM to 7AM)	Weekend - Saturday Premium Working Hours (12AM to 12AM)	Weekend - Sunday Premium Working Hours (12AM to 12AM)	GLWA Holiday - Premium Working Hours (12AM to 12AM)	Emergency Call - Premium Working Hours (12AM to 12AM)
Show-Up Charges						
Hourly Labor Charge for Normal Service Call [2 Hours Max. Billable] (\$):						
Hourly Labor Charge for Emergency Service Call [2 Hours Max. Billable] (\$):						
Truck Charge (\$):						
Incidentals Charge (Rate Adjustments, and Riders Shall Not be Billable to GLWA) (\$):	N/A	N/A	N/A	N/A	N/A	N/A

Equipment Rental Rates	Weekdays	Saturdays	Sundays	GLWA Holidays
Man Lift/Scissor Lift (Daily Rate - 24 Hours Rental) (\$):				
Scaffold Services (\$ / Ft):				

Discount to GLWA for OEM Replacement Parts List Price	Fire Alarm	Sprinkler	Fire Suppression
Preferred Customer Discount (%):			
Standard Discount Included with Tiered Service Plan (%):			

Bidding Notes to Contractor

- Contractor shall complete/fill-in yellow high-lighted cells and submit with bid.
- Show-Up charges for incidentals (such as rate adjustments, riders, and other incidentals) shall not be billable to GLWA.
- Emergency Call response time guarantee shall be 4 hours or less.
- Warranty Guarantee shall be One (1) Year Standard Warranty covering OEM Parts and Labor. Other related Incidentals (i.e. meals, travel, lodging, etc.) shall not be billable to GLWA.

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups**

Appendix C: Summary Bid Tab for Fire Alarm, Sprinkler, Fire Suppression

	<i>Professional Service Contract, for Facility Group, Shall Be Up to a Duration of Five (5) Years</i>					
	<i>Facility Group 1 - Combined Sewer Overflow (CSO) Basins</i>		<i>Facility Group 2 - Water Resource Recovery Facility</i>		<i>Facility Group 3 - Water Treatment Plants</i>	
	<i>First Three (3) Year Period</i>	<i>Optional Two (2) Year Extension Period</i>	<i>First Three (3) Year Period</i>	<i>Optional Two (2) Year Extension Period</i>	<i>First Three (3) Year Period</i>	<i>Optional Two (2) Year Extension Period</i>
JCI Tiered Service Plan Selected by GLWA						
Fire Alarm Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Basic Plan (\$):	D1	D2	D3	D4	D5	D6
Sprinkler Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Basic Plan(\$):	E1	E2	E3	E4	E5	E6
Fire Suppression Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Comprehensive Plan(\$):	F1	F2	F3	F4	F5	F6
Total (\$):						

	<i>Credit, for Facility Group, for Overlapping One (1) Year Warranty Period at Bid Due Date and Professional Services Contract</i>		
	<i>Facility Group 1 - Combined Sewer Overflow (CSO) Basins</i>	<i>Facility Group 2 - Water Resource Recovery Facility</i>	<i>Facility Group 3 - Water Treatment Plants</i>
	Pro-Rated Credit for Preventative Maintenance and Services for Systems Still Under One (1) Year Warranty or Service Contract At Time of Bid Due		
Pro-Rated Credit for Fire Alarm Systems (\$):			N/A
Pro-Rated Credit for Sprinkler Systems (\$):	N/A	N/A	N/A
Pro-Rated Credit for Fire Suppression Systems (\$):	N/A	N/A	N/A
Total (\$):			N/A

	<i>One Time Initial Set-Up Charge, for Facility Group, for Asset Tracking Database</i>		
	<i>Facility Group 1 - Combined Sewer Overflow (CSO) Basins</i>	<i>Facility Group 2 - Water Resource Recovery Facility</i>	<i>Facility Group 3 - Water Treatment Plants</i>
	One Time Initial Set-Up Charge for Fire Alarm, Sprinkler, Fire Suppression Asset Tracking Database (\$):		
Total (\$):			

	<i>Allowance Amounts:</i>		
	<i>Fire Alarm Systems</i>	<i>Sprinkler Systems</i>	<i>Fire Suppression Systems</i>
Recommended Annual Repair Allowance (CSO Facilities - Facility Group 1) - Set By GLWA	\$100,000	\$25,000	\$6,500
Recommended Annual Repair Allowance (WRRF - Facility Group 2) - Set By GLWA	\$150,000	\$30,000	\$24,000
Recommended Annual Repair Allowance (Water Treatment Plants - Facility Group 3) - Set By GLWA	\$150,000	\$30,000	\$22,000
Appendix M - One-time Inventory Purchase - (CSO Facilities - Facility Group 1)	M1	M3	M5
Appendix M - One Time Inventory Purchase (WRRF - Facility Group 2)	M2	M4	M6
Appendix M - One Time Inventory Purchase (Water Treatment Plants - Facility Group 3)	M7	M8	M9
Total (\$):			

Bidding Notes to Contractor

- Contractor shall complete/fill-in yellow high-lighted cells and submit with bid.
- Contractor shall copy the base bid amounts for Preventative Maintenance and Services for Fire Alarm (Appendix-D), Sprinkler (Appendix-E), and Fire Suppression (Appendix-F) to the
- Pricing, as bid, for recently installed fire alarm systems at facility group, shall exclude costs of preventative maintenance and service for all items which are otherwise covered by the
- Professional Services Contract, for each Facility Group, shall be for a duration of up to five (5) years. This shall include a three (3) year duration plus an optional two (2) year extension
- Pricing, as bid, shall be fixed for the duration of the five (5) year period for all preventative maintenance, service, and repair items including labor, supplies, parts, equipment, riders,
- Pricing, as bid, shall include all markups including, but not limited to: Administration and supervision of the preventative maintenance and service contract, overhead and profit,
- Upon initial set-up to initially populate Asset Tracking Database for each Facility Group, the ongoing maintenance required to keep the Asset Tracking Database current, accurate, and
- The recommended repair allowances are the Contractors best estimate of the amounts GLWA should supply for the contract which allow work that is to be compensated at a time & materials rate to occur to address facility system needs. Money from the allowance, per GLWA Contract, is not guaranteed and may only be spend with the execution of a Contract Change Directive (CCD).
- Contractor to input costs from Appendix M Tab.

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Appendix D: Bid Tab for Fire Alarm Systems - JCI Basic Plan

Facility Group 1 - Combined Sewer Overflow (CSO) Basins				Preventative Maintenance and Service Schedule - JCI Basic Plan																	(A) Preventative Maintenance and Service of Facility Fire Alarm (Annual \$)	(B) 24/7/365 Outside Monitoring Service to Call Center for Alarm Notification and Emergency Dispatch Service (Annual \$)		
Item	Location	Addressable FACP Manufacturer	FACP Model No.	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year			1X/Year	1X/Year
				Fire Alarm Control Panel Qty.	Remote Annunciator Panel Qty.	Fire Alarm Battery Qty.	Smoke Detector Qty.	Explosion Proof Beam Detector Qty.	Explosion Proof Smoke Detector Qty.	Explosion Proof Pull Station Qty.	Heat Detector Qty.	Corrosion Resistant Heat Detector Qty.	Duct Smoke Detector Qty.	Manual Pull Station Qty.	Audio-Visual Notification Appliance Qty.	Corrosion Resistant Audio-Visual Appliance Qty.	Explosion Proof Strobe Qty.	Explosion Proof Horn Qty.	Remote Power Supply/NAC Extender Qty.	Corrosion Resistant Pull Station Qty.	Phone Jack Qty.	Other (Identify Type) Qty.		
1	Baby Creek CSO	Simplex	4100	1	0		29	2				23		6	26	5	16	12	2	3				
2	Belle Isle CSO	Simplex	4100	1	0	2	12		1	3		3		5	12		1	1		2				
3	Conner Creek CSO	Simplex	4100	1	0	6	48		10	6		2	8	15	43	2	14	8	2	6				
4	Hubbell-Southfield CSO	Simplex	4100	1	0	8	52		10	3			8	15	45		14	8	2					
5	Leib CSO	Simplex	4100	1	0	2	13					1	6	4	15			2		1				
6	Oakwood CSO	Simplex	4100	2	0	14	29	4	18	12	10		8	14	45		22	20	5		22			
7	Puritan Fenkell CSO	Simplex	4100	1	0	6	12		1			4		3	13		3	1	2	2				
8	Seven Mile CSO	Simplex	4100	1	0	4	12	1				3	4	3	14		2	1	1	2				
9	St. Aubin CSO	Simplex	4100	1	0	2	9					4	6	2	10					3				

Facility Group 2 - Water Resource Recovery Facility				Preventative Maintenance and Service Schedule - JCI Basic Plan																	(D) Preventative Maintenance and Service of Facility Fire Alarm (Annual \$)	(E) 24/7/365 Outside Monitoring Service to Call Center for Alarm Notification and Emergency Dispatch Service (Annual \$)			
Item	Location	Addressable FACP Manufacturer	FACP Model No.	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year			1X/Year	1X/Year	1X/Year
				Fire Alarm Control Panel Qty.	Remote Annunciator Panel Qty.	Fire Alarm Battery Qty.	Smoke Detector Qty.	Explosion Proof Beam Detector Qty.	Explosion Proof Smoke Detector Qty.	Explosion Proof Pull Station Qty.	Heat Detector Qty.	Corrosion Resistant Heat Detector Qty.	Duct Smoke Detector Qty.	Manual Pull Station Qty.	Audio-Visual Notification Appliance Qty.	Corrosion Resistant Audio-Visual Appliance Qty.	Explosion Proof Strobe Qty.	Explosion Proof Horn Qty.	Remote Power Supply/NAC Extender Qty.	Corrosion Resistant Pull Station Qty.	Phone Jack Qty.	Other (Identify Type) Qty.			
1	WRRF	Simplex	4100	35 + 37 (NAC)	10	168	392				129		69	257	1				29				8 (Beam)	N / A	
2	WRRF	Silent Night		28			76				34			12	28								78 (Gas)	N / A	

Facility Group 3 - Water Treatment Plants				Preventative Maintenance and Service Schedule - JCI Basic Plan																	(G) Preventative Maintenance and Service of Facility Fire Alarm (Annual \$)	(H) 24/7/365 Outside Monitoring Service to Call Center for Alarm Notification and Emergency Dispatch Service (Annual \$)				
Item	Location	Addressable FACP Manufacturer	FACP Model No.	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year			1X/Year	1X/Year	1X/Year	1X/Year
				Fire Alarm Control Panel Qty.	Remote Annunciator Panel Qty.	Fire Alarm Battery Qty.	Smoke Detector Qty.	Explosion Proof Beam Detector Qty.	Explosion Proof Smoke Detector Qty.	Explosion Proof Pull Station Qty.	Heat Detector Qty.	Corrosion Resistant Heat Detector Qty.	Duct Smoke Detector Qty.	Manual Pull Station Qty.	Audio-Visual Notification Appliance Qty.	Corrosion Resistant Audio-Visual Appliance Qty.	Explosion Proof Strobe Qty.	Explosion Proof Horn Qty.	Remote Power Supply/NAC Extender Qty.	Corrosion Resistant Pull Station Qty.	Phone Jack Qty.	Other (Identify Type) Qty.				
1	Water Works Park																								N / A	
2	Lake Huron Plant																									N / A
3	Northeast Water Plant																									N / A
4	Southwest Water Plant																									N / A
5	Sprinwells Water Plant																									N / A

Bidding Notes to Contractor

- Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed
- Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Fire Alarm to Summary Bid Tab (Appendix-C) and submit with bid.

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups

Appendix E: Bid Tab for Sprinkler Systems - JCI Basic Plan

Facility Group 1 - Combined Sewer Overflow (CSO) Basins		Preventative Maintenance and Service Schedule - JCI Basic Plan					Preventative Maintenance and Service of Facility Sprinkler (Annual \$)
Item	Location	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	
		Dry Sprinkler System Qty.	Wet Sprinkler System Qty.	Back Flow System Qty.	Anti-Freeze System Qty.	Other (Identify Type) Qty.	
1	Baby Creek CSO						
2	Belle Isle CSO						
3	Conner Creek CSO		1				
4	Hubbell-Southfield CSO						
5	Leib CSO	1	1	2			
6	Oakwood CSO		5	5	1	1	
7	Puritan Fenkell CSO						
8	Seven Mile CSO						
9	St. Aubin CSO	1	1	2			

Facility Group 2 - Water Resource Recovery Facility		Preventative Maintenance and Service Schedule - JCI Basic Plan					Preventative Maintenance and Service of Facility Sprinkler (Annual \$)
Item	Location	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	
		Dry Sprinkler System Qty.	Wet Sprinkler System Qty.	Switches (Pressure, Waterflow, Tanper)	Deluge System	Fire Pumps	
1	WRRF	2	15	105	2	2	

Facility Group 3 - Water Treatment Plants		Preventative Maintenance and Service Schedule - JCI Basic Plan					Preventative Maintenance and Service of Facility Sprinkler (Annual \$)
Item	Location	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	
		Dry Sprinkler System Qty.	Wet Sprinkler System Qty.	Switches (Pressure, Waterflow, Tanper)	Deluge System	Fire Pumps	
1	Water Works Park						
2	Lake Huron Plant						
3	Northeast Plant						
4	Southwest Plant						
5	Springwells Plant						

Bidding Notes to Contractor

- Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each
- Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Sprinkler to Summary Bid Tab

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems

Appendix F: Bid Tab for Fire Suppression Systems - JCI Comprehensive Plan

<i>Facility Group 1 - Combined Sewer Overflow (CSO) Basins</i>		<i>Preventative Maintenance and Service Schedule - JCI Comprehensive Plan</i>			
		<i>1X/Year</i>	<i>1X/Year</i>	<i>1X/Year</i>	<i>1X/Year</i>
Item	Location	Portable Extinguishers (Dry Chem; Stored Pressure; Refillable; ABC) Qty.	Clean Agent Qty.	Wet Chemical Qty.	Dry Chemical Qty.
1	Baby Creek CSO	25			
2	Belle Isle CSO	7			
3	Conner Creek CSO	18			
4	Hubbell-Southfield CSO	8			
5	Leib CSO	6			
6	Oakwood CSO	18			
7	Puritan Fenkell CSO	13			
8	Seven Mile CSO	10			
9	St. Aubin CSO	6			

<i>Facility Group 2 - Water Resources Recovery Facility</i>		<i>Preventative Maintenance and Service Schedule - JCI Comprehensive Plan</i>	<i>Preventative Maintenance and Service Schedule - JCI Basic Plan</i>			
		<i>1X/Year</i>	<i>2X/Year (CO2 System & Refrigerant)</i>	<i>2X/Year (CO2 System Refrigerant ONLY)</i>	<i>2X/Year</i>	<i>2X/Year</i>
Item	Location	Portable Extinguishers (Dry Chem; Stored Pressure; Refillable; ABC) Qty.	CO2 Systems Qty.	CO2 Systems Qty.	Halon Systems Qty.	FM-200 Qty.
1	WRRF	308	5	5	1	2

<i>Facility Group 3 - Water Treatment Plants</i>		<i>Preventative Maintenance and Service Schedule - JCI Comprehensive Plan</i>	<i>Preventative Maintenance and Service Schedule - JCI Basic Plan</i>			
		<i>1X/Year</i>	<i>2X/Year (CO2 System & Refrigerant)</i>	<i>2X/Year (CO2 System Refrigerant ONLY)</i>	<i>2X/Year</i>	<i>2X/Year</i>
Item	Location	Portable Extinguishers (Dry Chem; Stored Pressure; Refillable; ABC) Qty.	CO2 Systems Qty.	CO2 Systems Qty.	Halon Systems Qty.	FM-200 Qty.
1	Water Works Park					
2	Lake Huron Plant					
3	Northeast Plant					
4	Southwest Plant					
5	Springwells Plant					

- Bidding Notes to Contractor**
- Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to
 - Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Fire Suppression to Summary Bid Tab

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups**

Appendix G: Bid Tab for Fire Alarm - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

Item	Description	Preventative Maintenance and Service Not Included in JCI Basic Plan (Qty. Hours Per Part)	OEM Part Repair Labor (Qty. Hours Per Part)	OEM Part Replacement Labor (Qty. Hours Per Part)	List Price for OEM Part (\$)	Ad Hoc Service Labor (Qty. Hours per Service)	Comments (List and Describe Repair, Replacement, Testing, Ad Hoc Service)
Fire Alarm - Parts PM, Repair, Replacement							
1	Fire Alarm Control Panel - Electronic Board						
2	Fire Alarm Control Panel - Battery						
3	Fire Alarm Control Panel - Battery Charger						
4	Fire Alarm Control Panel - Power Supply						
5	Remote Annunciator Panel						
6	Detector Device Battery						
7	Smoke Detector						
8	Explosion-Proof Beam Detector						
9	Explosion-Proof Smoke Detector						
10	Explosion-Proof Pull Station						
11	Heat Detector						
12	Corrosion-Resistant Heat Detector						
13	Duct Smoke Detector						
14	Manual Pull Station						
15	Corrosion-Resistant Pull Station						
16	Audio-Visual Notification Appliance						
17	Corrosion-Resistant Audio-Visual Notification Appliance						
18	Explosion-Proof Strobe						
19	Explosion-Proof Horn						
20	Remote Power Supply/NAC Extender						
21	Phone Jack						
22	Intermediate Addressable Relay						
23	Zone Addressable Relay						
24	DACT Unit						
25	Signal/Control Cable in 3/4"C (Per Linear Foot)						
27	Gas Detector						
29	Other Parts (List and Describe)						
31	Other Parts (List and Describe)						
33	Other Parts (List and Describe)						
Fire Alarm - Ad Hoc Services							
1	Annual smoke sensitivity test (Per Device)						
2	Annual calibration of gas detection device (Per Device)						
3	Smoke Detector Cleaning for Devices Outside Sensitivity Range (Per Device)						
4	Cable/ground fault repair (Per Ground Fault)						
5	Fire Alarm Control Panel Programming (Per Device)						
7	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
6	Repair/Replacement/installation Work (Describe)						
8	Other Ad Hoc Service (List and Describe)						
9	Other Ad Hoc Service (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups

Appendix H: Bid Tab for Sprinkler - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

Item	Description	Preventative Maintenance and Service Not Included in JCI Basic Plan (Qty. Hours Per Part)	OEM Part Repair Labor (Qty. Hours Per Part)	OEM Part Replacement Labor (Qty. Hours Per Part)	List Price for OEM Part (\$)	Ad Hoc Service Labor (Qty. Hours per Service)	Comments (List and Describe Repair, Replacement, Testing, Ad Hoc Service)
Sprinkler - Parts PM, Repair, Replacement							
1	Sprinkler Head						
2	Sprinkler Valve						
3	Sprinkler Small Dia. Piping Segment (Per Linear Foot) (List and Describe Pipe Diameter)						
4	Sprinkler Large Dia. Piping Segment (Per Linear Foot) (List and Describe Pipe Diameter)						
5	Other Parts (List and Describe)						
6	Other Parts (List and Describe)						
7	Other Parts (List and Describe)						
Sprinkler - Ad Hoc Services							
1	One-Time Decommissioning of Fire Hoses: Removal of existing fire hoses in fire hose cabinets. Coordination with AHJ to obtain written exemption to abandon fire hose cabinets in place and remove fire hoses						
2	Monthly NFPA 25 Fire Pump Churn (Pressure/Volume) Testing						
3	Annual backflow inspection.						
4	5-Year Sprinkler Fluid Treatments (i.e. Anti-Freeze, Anti-Corrosion): Water conditioning treatments such as anti-freeze and anti-corrosion additives based upon results of periodic sampling and testing						
5	5-Year Testing – Sprinkler: 5-Year Testing and maintenance - I.e. complete draining of sprinkler piping for visual inspection of piping interior for corrosion.						
6	Bi-annual periodic flushing of sprinkler piping, fluid treatments						
7	Semi-annual flushing of sprinkler piping (in lieu of annual periodic testing included with the JCI Basic Plan						
8	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
9	Repair/Replacement/installation Work (Describe)						
10	Other Ad Hoc Service - Dry Sprinkler System (List and Describe)						
11	Other Ad Hoc Service - Wet Sprinkler System (List and Describe)						
12	Other Ad Hoc Service - Backflow System (List and Describe)						
13	Other Ad Hoc Service - Anti-Freeze System (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups**

Appendix I: Bid Tab for Fire Suppression - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

Item	Description	Preventative Maintenance and Service Not Included in JCI Comprehensive Plan (Qty. Hours Per Part)	OEM Part Repair Labor (Qty. Hours Per Part)	OEM Part Replacement Labor (Qty. Hours Per Part)	List Price for OEM Part (\$)	Ad Hoc Service Labor (Qty. Hours per Service)	Comments (List and Describe Repair, Replacement, Testing, Ad Hoc Service)
Fire Suppression - Parts PM, Repair, Replacement							
1	Portable Extinguisher Dry Chemical Suppression Agent						
2	Portable Extinguisher Tank						
3	Other Parts (List and Describe) - Clean Agent						
4	Other Parts (List and Describe) - Wet Chemical						
5	Other Parts (List and Describe) - Dry Chemical						
6	Other Parts (List and Describe)						
7	Other Parts (List and Describe)						
Fire Suppression - Ad Hoc Services							
1	Five-Year Portable Fire Extinguisher (Pressure) Testing						
2	Monthly Portable Fire Extinguisher Visual Testing						
3	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
4	Repair/Replacement/installation Work (Describe)						
5	Other Ad Hoc Service - Clean Agent (List and Describe)						
6	Other Ad Hoc Service - Wet Chemical (List and Describe)						
7	Other Ad Hoc Service - Dry Chemical (List and Describe)						
8	Other Ad Hoc Service - (List and Describe)						
9	Other Ad Hoc Service - (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups

Appendix M: Bid Tab for Spare Consumable Parts, and Long-lead Items - Allowance for Fire Alarm, Sprinkler, Fire Suppression

Contractor Recommended Spare Consumable Parts - Quantity for Each Facility																								
Item	Description	(B) List Price for OEM Part (\$)	Equipment Lead Time (weeks)	Facility Group 1 - Combined Sewer Overflow (CSO) Basins								(A)		Facility Group 2 - Water Resource		Facility Group 3 - Water Treatment Plants					(E)			
				Baby Creek CSO (Spare Qty.)	Belle Isle CSO (Spare Qty.)	Conner Creek CSO (Spare Qty.)	Hubbell-Southfield CSO (Spare Qty.)	Leib CSO (Spare Qty.)	Oakwood CSO (Spare Qty.)	Puritan Fenkell CSO (Spare Qty.)	Seven Mile CSO (Spare Qty.)	St. Aubin CSO (Spare Qty.)	Total Quantity (Each Part) Facility Group 1	(A) x (B) Total (\$)	(D) WRRF (Qty.)	(D) x (B) Total (\$)	Water Works Park (Qty.)	Lake Huron Plant (Qty.)	Northeast Water Plant (Qty.)	Southwest Water Plant (Qty.)	Springwells Water Plant (Qty.)	Total Quantity (Each Part) Facility Group 3	(E)x (B) Total (\$)	
Fire Alarm - Consumable Parts																								
1	Fire Alarm Control Panel - Electronic Board																							
2	Fire Alarm Control Panel - Battery																							
3	Fire Alarm Control Panel - Battery Charger																							
4	Fire Alarm Control Panel - Power Supply																							
5	Remote Annunciator Panel																							
6	Detector Device Battery																							
7	Smoke Detector																							
8	Explosion-Proof Beam Detector																							
9	Explosion-Proof Smoke Detector																							
10	Explosion-Proof Pull Station																							
11	Heat Detector																							
12	Corrosion-Resistant Heat Detector																							
13	Duct Smoke Detector																							
14	Manual Pull Station																							
15	Corrosion-Resistant Pull Station																							
16	Audio-Visual Notification Appliance																							
17	Corrosion-Resistant Audio-Visual Notification Appliance																							
18	Explosion-Proof Strobe																							
19	Explosion-Proof Horn																							
20	Remote Power Supply/NAC Extender																							
21	Phone Jack																							
22	Intermediate Addressable Relay																							
23	Zone Addressable Relay																							
24	DACT Unit																							
27	Gas Detector																							
29	Other Parts (List and Describe)																							
31	Other Parts (List and Describe)																							
33	Other Parts (List and Describe)																							
												M1			M2						M7			
Worksheet Sub-Total For Spare Consumable Parts, and Long-lead Items For Each Facility Group(\$):																								
Sprinkler - Consumable Parts																								
1	Sprinkler Head																							
2	Sprinkler Valve																							
5	Other Parts (List and Describe)																							
6	Other Parts (List and Describe)																							
7	Other Parts (List and Describe)																							
																							M8	
Worksheet Sub-Total For Spare Consumable Parts, and Long-lead Items For Each Facility Group(\$):																								
Fire Suppression - Consumable Parts																								
1	Portable Extinguisher Dry Chemical Suppression Agent																							
2	Portable Extinguisher Tank																							
3	Other Parts (List and Describe) - Clean Agent																							
4	Other Parts (List and Describe) - Wet Chemical																							
5	Other Parts (List and Describe) - Dry Chemical																							
6	Other Parts (List and Describe)																							
7	Other Parts (List and Describe)																							
																							M9	
Worksheet Sub-Total For Spare Consumable Parts, and Long-lead Items For Each Facility Group(\$):																								

Bidding Notes to Contractor
 1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

**Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of
Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups**

Appendix N: Bid Tab for Fire Alarm Device Obsolescence Worksheet

Item	Description	(B) List Price for OEM Part (\$)	(C) Labor Cost for Each OEM Part (\$)	Obsolescence Device Quantity for Each Facility Per Year										Total Quantity (Each Part) Facility Group 1	(A)x (B + C) Total (\$)	Facility Group 2 - Water Resource Recovery Facility		Facility Group 3 - Water Treatment Plants					Total Quantity (Each Part) Facility Group 3	(E)x (B + C) Total (\$)	Comments (List and Describe Obsolescent Parts)							
				Baby Creek CSO (Qty.)	Belle Isle CSO (Qty.)	Conner Creek CSO (Qty.)	Hubbell-Southfield CSO (Qty.)	Leib CSO (Qty.)	Oakwood CSO (Qty.)	Puritan Fenkell CSO (Qty.)	Seven Mile CSO (Qty.)	St. Aubin CSO (Qty.)	(D) WRRF (Qty.)			(D)x (B + C) Total (\$)	Water Works Park (Qty.)	Lake Huron Plant (Qty.)	Northeast Water Plant (Qty.)	Southwest Water Plant (Qty.)	Springwells Water Plant (Qty.)											
1	Smoke Detector																															
2	Explosion-Proof Beam Detector																															
3	Explosion-Proof Smoke Detector																															
4	Explosion-Proof Pull Station																															
5	Heat Detector																															
6	Corrosion-Resistant Heat Detector																															
7	Duct Smoke Detector																															
8	Manual Pull Station																															
9	Corrosion-Resistant Pull Station																															
10	Audio-Visual Notification Appliance																															
11	Corrosion-Resistant Audio-Visual Notification Appliance																															
12	Explosion-Proof Strobe																															
13	Explosion-Proof Horn																															
14	Gas Detector																															
15	Other Parts (List and Describe)																															
16	Other Parts (List and Describe)																															
17	Other Parts (List and Describe)																															
18	Other Parts (List and Describe)																															
19	Other Parts (List and Describe)																															
20	Other Parts (List and Describe)																															
21	Other Parts (List and Describe)																															
22	Other Parts (List and Describe)																															
23	Other Parts (List and Describe)																															
24	Other Parts (List and Describe)																															
27	Other Parts (List and Describe)																															
29	Other Parts (List and Describe)																															
31	Other Parts (List and Describe)																															
33	Other Parts (List and Describe)																															
Worksheet Sub-Total For Fire Alarm Device Obsolescence Facility Group(\$):															(N1)	(N2)	(N3)															
Worksheet Total For Fire Alarm Device Obsolescence Facility Group(\$):															(N1) + (N2) + (N3)																	

1 and 2(\$):
Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/field-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

2. Bid Tab for Fire Alarm Systems shall include an annual Provisional Fire Alarm Device Obsolescence Allowance, with delineated unit pricing, for each facility group. The Provisional Fire Alarm Device Obsolescence Allowance, for each facility group, is reserved to accommodate for planned obsolescence of devices and to accommodate for the routine repair/replacement of nuisance, failed, damaged, or deteriorated items for the duration of the Professional Services Contract for each facility group. This annual allowance is for discretionary use and will require written approval by GLWA on an item-by-item basis where recommended by Contractor with supporting documentation and where the item is not otherwise warrantied. The annual Provisional Fire Alarm Device Obsolescence Allowance, for each facility group, is reserved for the replacement of: 10% of automatic fire detection devices; 10% of gas detection devices per year; 10% of corrosion resistant devices per year; 10% of explosion-proof devices per year; 5% of devices such as manual pull stations, horns/strobes, zone addressable modules, etc. per year.