Enterprise Risk Management

2018 Year End Update

Insurance Renewal Summary	2
Workers' Compensation Metrics	7
Litigated Workers' Comp Cases	11
GL and Auto Claims History	12
Total Cost of Risk Metric	13



GLWA Insurance Summary Renewals Completed

Policy	Carrier and A.M. Best Rating/Financial Size	Policy Limits	Deductible	Expiring Premium	Renewal Premium	Change	Highlights
Property	AXA XL* A / XV	\$750 million	\$1 million	\$1,794,852	\$1,784,340	-\$10,512 (- 0.6%)	 Premium Rate = \$0.024 per \$100 of insured value** All interceptors and underground pipes have a sublimit of \$5 million. Property loss prevention services for select sites. Raw water intakes included at full limits Stand-alone terrorism coverage also included****

* AXA, a French company, completed an acquisition of XL Catllin in the 4th quarter of 2018.

** Property premium of \$1,620,000 / [total insurable value of \$6,807,337,000 /100] = 0.02379

*** \$500 million limit on terrorism; \$10 million limit on nuclear, biological, chemical, or radiological events.



GLWA Insurance Summary Renewals Completed

Policy	Carrier and A.M. Best Rating	Policy Limits	Deductible	Expiring Premium	Renewal Premium	Change	Highlights
Public Officials/ Employment Practices Liability	Chubb A++	\$25 million	\$250,000	\$366,852	\$354,149	-\$12,703 (-3.5%)	 Modified Defense Outside the Limits Provision (new) That means GLWA has \$25 million for defense + \$25 million for indemnity



GLWA Insurance Summary Renewals Completed

Policy	Carrier and A.M. Best Rating/Financial Size	Policy Limits	Deductible	Expiring Premium	Renewal Premium	Change	Highlights
Casualty (EL, Auto, GL)	Argonaut Insurance Co. A / XIII	\$10 million	\$1,000,000	\$370,230	\$457,854	+\$87,624 (+23.7%)	 Deductible doubled Coverage for Law Enforcement Liability No exclusion for sewer backups No commutation clause TRIA and MCCA included in renewal; was not in expiring
Excess WC	Arch Insurance Group A/XV	Part A Statutory Part B: \$2 million	\$1,250,000	\$245,147	\$205,886	-\$39,261 (-16.0%)	 Rate per \$100 of payroll decreased from \$0.424 to \$0.326 No commutation clause 2-year premium rate guarantee
	Total Renewal Pre	miums to Date:		\$2,777,081	\$2,802,229	+25,148 (+0.9%)	



GLWA Insurance Summary Renewal-in-Process

Policy/Period	Carriers and A.M. Best Rating	Policy Limits	Deductible	Expiring Premium	Renewal Premium	Change	Highlights
Pollution Legal Liability	PRIMARY Steadfast Insurance Co. A+ EXCESS Indian Harbor Ins. Co. A+	\$25 million \$25 million	\$500,000	\$110,843	Policy ext February	tended to 7 8, 2019	 Negotiations still in process Mold claims are limiting interest by carriers 24 markets have thus far declined to quote. Products coverage (finished water) is sub-limited to \$10 million



GLWA Insurance Summary New Placements and Future Risk-Transfer Considerations

Policy	Primary Carrier and A.M. Best Rating	Policy Limits	Deductible	Expiring Premium	Renewal Premium	Change	Highlights
Fiduciary 2019	Great American A+	\$5 million	\$1,000	n/a	\$6,400	n/a	 For GLWA Retirement Plans Plan assets are becoming financially material Evaluate higher limits as plan assets grow
Cyber / Network Security	TBD						 Evaluate exposures and limit requirements Market in early 2019
Crime	TBD		Covers employee dishonesty, forgery or alterations, funds transfer fraud, etc.				• Evaluate need and coverage options in early 2019
Aviation	TBD						• For GLWA Security's drone program in 2019



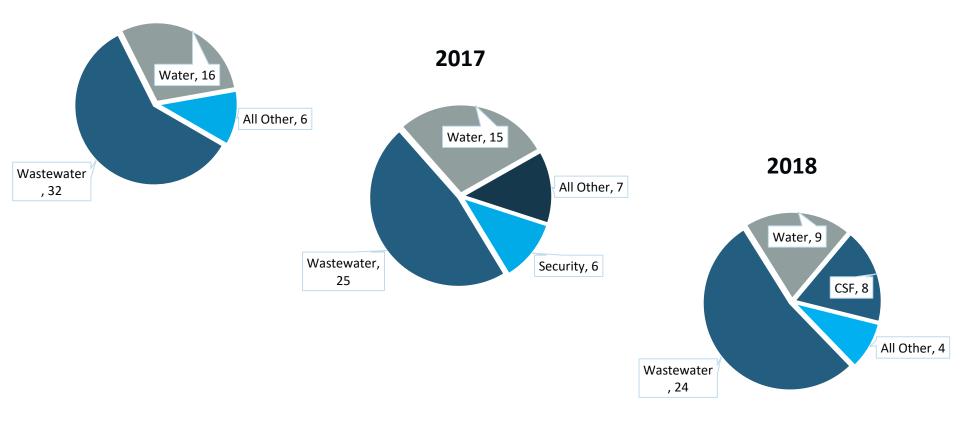
Workers' Compensation Comparative Metrics Valued as of December 31, 2018

Calendar Year Ending	Claim Count	Total Incurred	Total Paid	Average Paid Per Closed Claim	Other Metrics		
					# of Litigated Claims	# of Open Claims	% Medical Only
12.31.2016	54	\$142,974	\$142,974	\$2,648	-0-	-0-	83%
12.31.2017	53	\$278,131	\$192,450	\$2,815	2	1	74%
12.31.2018	45	\$292,005	\$138,979	\$2,074	-0-	8	80%



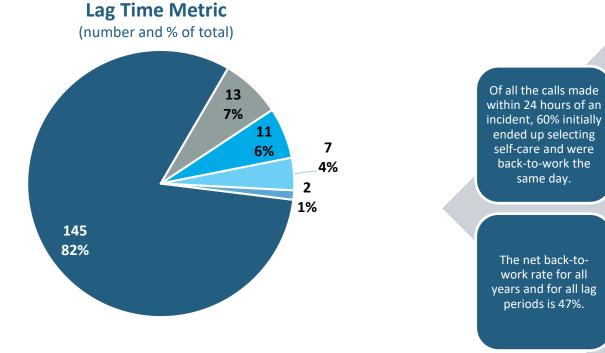
Workers' Compensation Claims by Service Area By Calendar Year as of December 31, 2018

2016

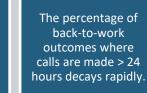




Workers' Compensation Nurse Triage Call Outcomes For the Combined Calendar Years 2016-2018 n=178 calls



■ Within 24 hours ■ 1 to 3 days ■ 4 to 7 days ■ 8 to 30 days ■ > 30 days



The net back-towork rate for all years and for all lag periods is 47%.

same day.

Therefore, 178 calls x 47% = 84 fewer reportable claims.... an average of 28 fewer claims/year.



Workers' Compensation Reported Claim Frequency Metrics Valued as of December 31, 2018

Calendar Year Ending	Claims (A)	Total Hours (B)	Frequency Rate per 100 Full-Time Equivalents [(A)*200,000] / (B)	BLS Benchmark *
12.31.2016	54	1,573,981	6.9	
12.31.2017	53	1,766,134	6.0	6.1
12.31.2018	45	1,931,621	4.7	

* 2016 is the latest benchmark year from the Bureau of Labor Statistics (Local Government, Michigan; Trade, Transportation and Utilities; Water, Sewage and Other Systems)



Litigated Workers' Compensation Claims All Years; Valued as of December 31, 2018

Total number of litigated files = 1.3% of <u>all</u> reported claims since January 1, 2016

Date of Loss / Injury Description	Claim Status	Total Incurred	Total Paid	Expected Outcome
October 4, 2017 Right Rotator Cuff	Pending	\$131,400	\$46,294	"Take Nothing" on wage loss claim. Claimant was terminated for cause.
October 29, 2017 Motor Vehicle Accident – Alleged Lower Back	Closed	\$1,069	\$1,069	Claimant's <i>Application for</i> <i>Mediation</i> was dismissed by WC Agency (failure to pursue)



General Liability and Auto Liability Claims Valued as of December 31, 2018

Calendar Year Ending	Genera	l Liability	Auto Liability		
	# of Claims Total Incurred		# of Claims	Total Incurred	
12.31.2016	4	\$246,438*	3	\$2,913	
12.31.2017	1	\$27,550	2	\$736	
12.31.2018	0	\$-0-	2	\$38,600	

• \$244,923 (99.4%) of the total is related to Beasley vs. GLWA matter

Note: GL claim from 2017 remains open; one Auto claim from 2018 remains open; all other claims are closed



Total Cost of Risk (T.C.O.R.) Metrics For the Fiscal Years Ending June 30

	FY 2016*	FY 2017	FY 2018
Total Costs (rounded)**	\$2,643,000	\$3,538,000	\$3,428,000
Operating Revenues (rounded)	\$398,131,000 (audited)	\$857,557,000 (audited)	\$811,895,000 (audited)
T.C.O.R. (total costs per \$1,000 of revenues)	\$6.64	\$4.13	\$4.22
Proforma 2017: Operating revenues Less: one-time bad debt recovery Adjusted operating revenues	\$857,557,000 (<u>40,172,000</u>) \$817,385,000	\$4.33	

* Fiscal year ending June 30, 2016 was a six-month period.

** Sum of (a) the cost of all in-force insurance policies, (b) cost of losses that are retained, and (c) the administration costs of the risk management department and all associated contracts like third-party administration and brokerage fees.

