Key Largo Wastewater Treatment District
Board of Commissioners Meeting
Agenda Item Summary

Meeting Date: March 15, 2022

Agenda Item Number: I-1

Action Required:
No

Department:
IT

Sponsor:
David Soper

Subject:
IT - Security Discussion

Summary of Discussion:
Mr. Soper will present additional security services and costs to the board.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$54,840 - Annually $4,570 - Monthly	1. IT Security Discussion
Administration:	_____		
Finance:	_____	Funding Source: Rate Revenue	
District Counsel:	_____		
District Clerk:	_____	Budgeted: Yes	
Engineering:	_____		

Approved By: _____ **Date:** March 9, 2022
General Manager

IT Security Discussion

Introduction:

ENS made recommendations during budget planning last year to consider additional security services. The items were approved in the budget. The services recommended are best practice and these days are common in networks small and large. A summary of the services and cost is provided below.

- Cyber security training
  - $480 per month
- Log capture
  - $240 per month
- Intrusion Testing
  - $800 per month
- Business continuity / Disaster recovery upgrade
  - $2,500 per month
    - Currently paying $2,000 per month
- Next Generation end point protection
  - $550 per month

Total monthly increase $2,570

Cyber Security Training Summary:

Educating employees on common threats is imperative in order to successfully fight against malicious intent. Additionally, a comprehensive cybersecurity awareness training program not only lowers risks of security threats... it frees up the IT department's time by avoiding cybersecurity breaches.

Some of the features of the product being recommended are the ability to send fully automated simulated phishing attacks, using thousands of customizable templates with unlimited usage. Train users with access to the world's largest library of always-fresh awareness training content. AI-Driven phishing and training recommendations based on users' phishing and training history.

Log Capture Summary:

IT systems have several different event logs that should be monitored consistently. Of these logs, the most important is the Security Log. It provides key information about who is logged onto the network and what they are doing. Additionally, they become a repository for intrusion detection data. Security logs are important to security personnel to understand if vulnerability exists in the security implementation.

Intrusion Testing Summary:

The primary benefit of an intrusion detection system is to ensure IT personnel is notified when an attack or network intrusion might be taking place. A network intrusion detection system (NIDS) monitors both inbound and outbound traffic on the network, as well as data traversing between systems within the network.

Business Continuity Upgrade Summary:

The district currently spends $2,000 per month for a business continuity and disaster recover appliance that includes cloud storage and the ability to "run" servers in the cloud. The monthly fee includes the appliance, file level backup, full server replication and the ability to run the district servers from the appliance or in the cloud in the event of a critical server failure. We are recommending to increase the capacity of the cloud storage for greater retention. This cost also negates the district's need to purchase two servers when they become end of life. The district will only need one.

Next Generation Anti-virus Summary:

Advanced endpoint security solutions using machine learning and behavioral protection can offer organizations far more sophisticated protection than traditional antivirus solutions. NGAV solutions can proactively detect and identify threats, including never-before-seen malware and ransomware.

ENS Proposed IT Services - March 2022

Date:	ENS Quote #:	Details:	Annual Cost:	Notes:	KLWTD Budget GL:
3/8/2022	Quote #000456 v1	Security Svcs - User Training KnowBe4 Cybersecurity training and learning management systems.	$5,760.00	$8.00 x 60 qty recurring, $480 per month.	IT Security Svcs
3/8/2022	Quote #000456 v1	Security Svcs - Enhanced End-Point Protection Enterprise level, preventing attacks	$6,600.00	$10 x 55 qty recurring. $550 per month	IT Security Svcs
3/8/2022	Quote #000456 v1	Security Svcs - Intrusion Detection Svcs: Proactive 24x7 monitoring of network traffic entering or leaving the customer network. All traffic is monitored and alerted through a 24x7 security operations center with escalation to onsite engineering as required. Pricing is based on a per IP address count and can be adjusted as needed with 30 days notice.	$9,600.00	$10 x 80 qty recurring $800 per month	IT Security Svcs
3/8/2022	Quote #000456 v1	Business Continuity / Disaster Recovery Upgrade	$30,000.00	Increase to $2,500 per month	Business Continuity & IT Disaster Recovery & Backup
3/8/2022	Quote #000456 v1	Security Svcs - Logging 30 day; logging per GB, includes 30 day log storage of activity tracked by the Intrusion Detection Svcs	$2,880.00	$3.00 x 80 qty recurring by month: $240.	IT Security Svcs
		TOTAL at 3/8/22:	**$54,840**		

FY22 Budget:	GL Code:	FY22 Budgeted Amount:	Cost:
IT Security Svcs	**401-5130-311.000.07**	**$18,252**	**$24,840**
Business Continuity & IT Disaster Recovery & Backup	**411.000.05 (multiple departments)**	**$30,000**	**$30,000**