

Water and Sewer Projects

2016-2017

Public Information Session 1



Water and Sewer Projects 2016-17

- Introductions
- What is happening & Why
- How does it impact me?
- When will it happen?

Introduction to the Presenter

- Cathy Anderson
 - B.S. Naval Architecture and Marine Engineering
 - J.D. & Patent Agent
 - 20 years working with/for Department of the Navy
 - Engineering lead/manager on LPD 17 and DDG 1000 Class ships
 - Elberta Resident
 - Village Clerk
 - Project Manager for Village
 - Appointed by Village Council
 - Coordinating Village Staff & Officials, Engineers, and Attorneys
 - Primary responsibility is to look out for Elberta's best interests



Village Water Supply Basics

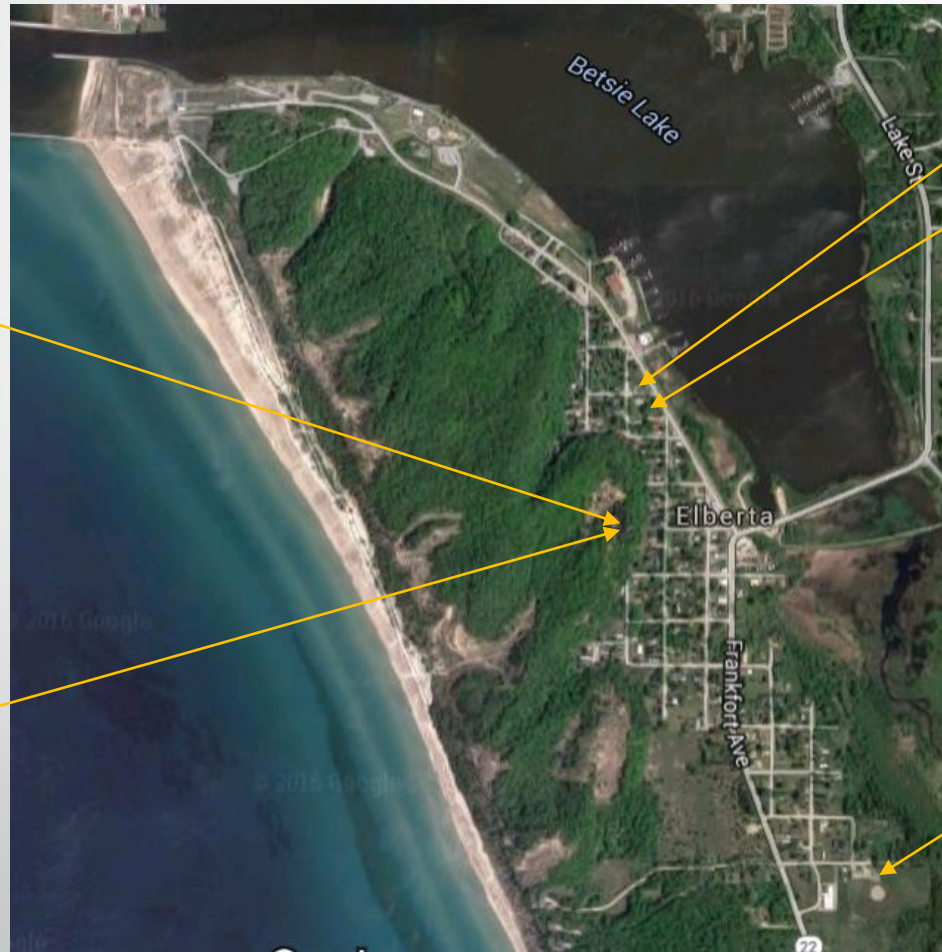
- Three wells – only two are used – pump groundwater from aquifer located 60' to 80' below the surface
- Water treatment – sodium hypochlorite (NaOCl) injected at pumps to kill bacteria
- Two water storage tanks – elevated so water pressure is maintained by gravity

Village Water Supply Basics

150,000 gal tank



60,000 gal tank



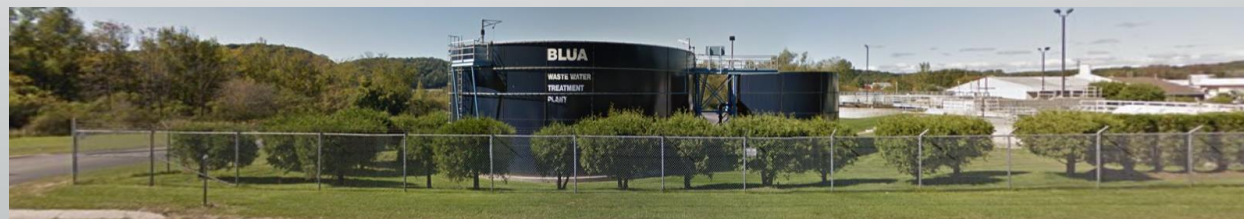
Well No 1

Well No 2 (not used)

Well No 3

Village Sanitary Sewer Basics

- Village operates the sanitary sewer collection system
 - Houses drain into sewer main.
 - Village has a pump station located between M-22 and the Mini-Pond to “lift” the sewage so it drains to BLUA
- Sewage Treatment is done at Betsie Lake Utility Authority (BLUA)
 - BLUA is funded by Elberta and Frankfort
 - Operated, managed, and maintained separate from the Village or City sanitary sewer systems



Planned Water System Work

What

- Install a supervisory control and data acquisition (SCADA) system
- Construct an access road to the water tank site
- Decommission and remove the 60,000 gal water tank
- Repairs to the 150,000 gal water tank

Why

- Alert water operator in event of failure and allow operator to monitor & control water system from Village Office
- Currently tank cannot be accessed year-round. MDEQ requires daily visit to tank site.
- The 60,000 gal tank is beyond its useful life, requiring extensive and costly repairs. It is not needed to meet water usage or fire flow demands. The 150,000 gal tank can be expanded in the future if necessary
- The 150,000 gal tank was inspected recently and minor repairs are required.

Planned Water System Work - continued

What

- Install security fencing and a surveillance system at the water tank site
- Extend the water main up Ravine to McConnell and add a fire hydrant

Why

- Trespassing and vandalism are problems at the water tank site
- The trailer park is underserviced in event of a fire

Planned Sewer System Work

What

- Replace the sewer pipes under
 - Lincoln from Grant to 400' south of Bigley
 - Pearson from Lincoln to Washington
 - Sherman from Lincoln to Washington
 - Grant from Lincoln to Frankfort Ave
 - M-22 from Van Brocklin to Bigley
 - Valley from First to Geo McManus
 - Steel from Cartwright to Thomas
- Install new road surface over replaced sewer lines as necessary

Why

- The pipes in these locations are badly deteriorated, causing clogs and back-ups. Deteriorated pipes allow for groundwater infiltration so the Village pays for BLUA to process A LOT more flow than actually comes from the users

Impact to Consumers - Construction

- Residents adjacent to construction areas can expect construction vehicles, noise and dust during construction
- Construction zones will be blocked off; do not enter for your own safety
 - Access to individual driveways may be inconvenient, re-routed or blocked during construction.
- Individual sewer lines will have to be connected to new sewer collection pipes
 - There will be a short period (hrs) when individual customers will be asked to not put anything down their drains
 - Individual consumers will be notified of their specific day/times as soon as we know the details
- The water tank access road will be for Authorized Vehicles Only.

Impact to Consumers - Cost

- No Impact!
- This work is being paid for by grant and loan (aka revenue bond) from the USDA.
 - Sewer - \$309,000 loan at 1.75% and \$924,000 grant
 - Water - \$350,000 loan at 1.75%
- Loan payments are budgeted from existing water and sewer revenue.
 - These projects will not cause water or sewer rates to increase
 - No additional or increased tax to fund these projects

Schedule

- June 2016 – Village notified of funding approval from USDA
- July-Nov 2016
 - Surveys and soil samples will be taken at work areas
 - Engineering firms doing detailed design work
 - Village compliance in process
- Winter 2016-2017
 - Solicit bids, enter construction contracts, detailed schedule set
- Spring 2017
 - Notify residents directly impacted by construction
 - Perform work

Keep up to date

- This presentation is available on the Village Website: www.villageofelberta.com/water-and-sewer
- As projects progress, additional information will be posted

**Village of Elberta,
Michigan**
"Come and Play!"

- Explore ▼
- Village Government ▼
- Village Services ▲
 - Water and Sewer
 - Trash Collection & Recycling
- Parks and Recreation ▼
- Elberta Life Saving Station ▼
- Farmers' Market ▼
- Special Notices

Water and Sewer

Water and Sewer Rate Schedule for the Village of Elberta
 Effective 3/1/2016
 SAME RATES FOR RESIDENTIAL AND COMMERCIAL

WATER RATES

	WATER USAGE	APARTMENTS
Per 1,000 gal	\$4.77	
ON/OFF FEE	\$25.00	
METER SIZE	READY-TO SERVE	
"3/4 or 5/8"	\$16.25	\$16.25
1"	\$22.75	
1.25"	\$30.88	
1.5"	\$40.63	
2"	\$66.63	
3"	\$138.14	
4"	\$242.15	
6"	\$528.18	
IRRIGATION METER	NO READY-TO SERVE, USAGE ONLY	

SEWER RATES

	SEWER USAGE
Per 1,000 gal	\$4.35
METER SIZE	READY-TO SERVE
"3/4 or 5/8"	\$31.35
1"	\$40.55
1.25"	\$51.60
1.5"	\$66.35
2"	\$103.90
3"	\$405.35

Village Office
 151 Pearson St.
 PO Box 8
 Elberta, MI 49628
 PH: [231-352-7201](tel:231-352-7201)
 FAX: 231-352-4033

Office Hours
 Wednesdays 1pm - 5 pm
 Thursdays 9 am - 1 pm
 Or call for an appointment

Department of Public Works
 151 Pearson St.
 Elberta, MI 49628
 PH: [231-651-9626](tel:231-651-9626)
 FAX: 231-352-4033



Questions?

