

PINETOP-LAKESIDE SANITARY DISTRICT

2600 W. ALISA LN. * LAKESIDE, AZ 85929 * PHONE (928) 368-5370 * FAX (928) 368-6039

REGULAR SESSION
MINUTES

January 12, 2022

1. CALL TO ORDER

Board Chairman Butler called the Board meeting to order at approximately 6:00 PM.

2. OPENING CEREMONY

District Manager Smith led the Board and Staff in the Pledge of Allegiance.

3. ROLL CALL OF BOARD MEMBERS

Present were: Diana Butler, Board Chairman, Patrick Place, Board Vice-Chair, John M. Beeler, Board Secretary, and Kenny Keith, Board Member. Staff Members present were: David J. Smith, District Manager, Mark Heberer, Finance Manager, and Amber Wright, Accounting Clerk.

Board Member Meier, and Legal Counsel joined the meeting via conference call.

4. CONSENT AGENDA

Board Member Keith made a motion approving the Consent Agenda, as presented by Staff for December 2021 bills and invoices... Board Secretary Beeler seconded.

Motion passed unanimously.

5. CALL TO THE PUBLIC

Board Chairman Butler read the Call to the Public statement and opened the Call to the Public at approximately 6:02 PM. There was no response from the public, and therefore Board Vice-Chair closed the Public Hearing at approximately 6:03PM.

6. REPORTS AND CORRESPONDENCE

Board Chair's Report.

Board Vice-Chair Place did not have a report.

Board Secretary's Report.

Board Secretary Beeler did not have a report.

Manager's Report.

Update – Collection System Department activities.

District Manager Smith reported that the Collection System crew cleaned 2,800 linear feet of sewer line, televised 15,232 linear feet, 64 manholes inspected.

District Manager Smith also reported total linear feet of lines cleaned for 2021 was 122,000 feet, and 22 miles televised.

We finally heard back from Mr. Hatch on the Truck purchases, delivery date is unknown. They will be built in May, and should have them in June. Mr. Hatch said Ford should still be honoring our price the board approved back in May of 2021. The service bed prices have gone up.

Board Chair Butler asked what is happening with the sewer line and holes still for the slip line project. District Manager Smith replied they will be back mid March. They wanted to finish now, but lines and everything would freeze.

Update – Plant Department activities.

District Manager Smith reported that the average daily flows for the month of December were 0.80 mgd; organic removal was at 98%, nitrogen results 3.53 mg/L. Compost produced 150 cubic yards. The District sold 70 yards of compost.

Jeff Rhyan returned to work Monday 1/10/2022.

Year end Summary:

Connections up by 135

Flows: 2020 Averaged 0.96 MGD

2021 Averaged 0.86 MGD

Nitrogen Removal: 2020 averaged 3.64 mg/L

2021 averaged 4.67 mg/L

The District Manager's Reports concluded.

Accounting Report

Finance Manager Heberer reported four new connections for December bringing the District up to 8583 connections. December has been kind of a quiet month. Might end up

exceeding revenues by a little, and cutting expenses by a little so should have positive cash flow for 2021-2022.

Board Secretary Beeler asked if there is any update on Annex in The District across from Maverick. Finance Manager Heberer replied as far as I know still going on and going forward, heard they are selling some lots.

The Finance Manager Reports concluded.

7. BUSINESS

A. Discussion, Consideration, and possible action regarding Clarifier Replacement project.

The District has received pricing from representatives of four (4) manufacturers. The lowest responsible bidder is JBI Water & Wastewater which represents Clear Water Environmental with a price of \$615,000 without applicable tax and installation. Clear Water Environmental has been in business since 2002 and provided their installation list (35 pages) and 59 clarifiers with the same type of design have been installed.

Staff recommends that the Board of Directors approve the purchase of equipment as quote by JBI Water & Wastewater in the amount of \$615,000 excluding taxes. This equipment includes parts necessary to rebuild both existing clarifiers.

Board Secretary Beeler asked if the new equipment will go closer to the wall so they don't have to go out and clean the walls.

District Manager Smith replied yes, it will be easier and safer for our guys to clean.

Board Member Keith asked if we know what installation cost will be

District Manager Smith stated there are several companies, but LDB will be approximately \$120,000 for labor, but most experienced would be PCL. They built Show Low's, Jonovich is also experienced.

Board Secretary Beeler made a Motion to approve Clarifier replacement project with JBI Water & Wastewater for \$615,000, doesn't include taxes. Board Vice-Chair Place seconded.

Motion passed unanimously.

B. Discussion, Consideration regarding Future Projects.

The District's staff feels that the following projects should be considered in order to maintain reliable operations.

1. Grit separation and dewatering equipment- replacement of existing equipment
These pieces of equipment could range from \$100,000-\$200,000.

2. Generator for the P. Lakes #1 lift station-this station is often affected by power outages.

Board Vice-Chair asked District Manager Smith if the generator needed would be Diesel. District Manager Smith replied no either natural gas or gasoline. Board Secretary Beeler asked if there is natural gas up by P. Lakes, and Mr. Smith replied with yes I believe they do.

3. Lakeside lift station-Upgrades to wet well and pumps to maintain reliability
Need more capacity, goes on and off often. Possibly \$300,000-\$500,000.

4. Slip line defective pipes in the collection system, project worth doing.

Board Secretary Beeler asked what about Pioneer lane project. District Manager Smith replied with well got a bill from Painted Sky so they are working on it.

Discussion concluded.

C. Discussion Consideration, and possible action regarding update on the composting process.

Composting has never been the most cost effective method for handling the biosolids; however, the District has determined the cost is not the only consideration. The problems or issues with the current composting method can be reduced through several options. These options are outlined below. It is important to understand the basics or steps involved with composting, which is the first part of this item and issues with options are outline following the process description.

Composting Process Summary

Step 1: Mix dewatered biosolids with amendments

Goal- Produce a mixture with moisture content of 50-60%.

Step 2: Active phase

Goal- Maintain temperature of 131 degrees F for three(3) days and average 113 degrees F for 14 days if using aerated static piles. Windrows require 131 degrees F for 15 days and must be turned five (5) times during this period.

Step 3: Curing phase

Goal- Material is cured for 30-180 days for additional decomposition and stabilization until compost reaches ambient temperature.

Step 4: Drying phase

Goal- This step is necessary to dry the material enough to allow proper screening and recapturing of bulking material.

The amount of biosolids and bulking material combined to compost is based on a mass balance process that considers the moisture content, C:N ratio, and volatile solids.

Issues with composting:

1. Moisture within the amendment requires large volumes of amendments added.
2. Seasonal humidity reduces evaporation rates.
3. High moisture contents binding or clogging the screening equipment reducing efficiencies.
4. Current facility does not properly cure and dry compost because of limited space and equipment.

Possible solutions:

1. Construct a larger area for curing and drying, cost estimates \$.75M to \$1.2M for hard surface.
2. Produce compost seasonally, as conditions allow.
3. Add proper equipment for managing the piles, such as windrow turner which costs new from \$160K to \$400K.
4. Stop composting; the cost of disposing of biosolids in a landfill would cost \$200,000 per year at current production and moisture content.

Cost comparison based on an annual production volume of 2200 wet tons

Composting Operational Costs: \$204,000

- Equipment Fuel- \$22,000
- Electricity- \$6,000
- Loader Maintenance- \$3,000
- laboratory- \$6,600
- Woodchips- \$3,000
- Labor- \$164,000

Landfill Biosolids (2200 wet tons per year):

- District Managed: \$139,700
 - \$40 per wet ton- \$88,000
 - Transportation @ 1.00 per mile (28,600 miles per year) - \$28,600
 - Labor- \$23,100
- Contracted: \$158,000
 - \$55 per wet ton - \$114,000
 - Pick up fee (\$200 per load) - \$44,000

Volume of biosolids is based on 15% dry solids content, at 20% dry solids the volume reduces to 1,650 wet tons per year.

District Manager Smith stated the problem is during the winter time. Summer is not a problem because compost can cure outside. If we are going to do it, we need to do it right and consistently, but the facts are that is hard to do in the winter. We have a building full of wet wood chips they are 20% moisture already. We can do it seasonally when the weather is good. It is not a big money making option. Wet biosolids need to be put on hard surface, would need at least an acre hard surface to store. In the winter may have to send to the landfill a month or two.

Board Secretary Beeler asked what months would you cut it off, and Mr. Smith replied November-March at least. If we can do it we will do as much as we can.

Board Vice-Chair Place asked are what we are charging now does that cover the cost of operations. Mr. Smith replied no, we never make any money at it.

Board Member Meier says look at doing it seasonally, we are already almost thru January. Spending some time figuring out optimal times, and look at being ready for next fall.

Board Secretary Beeler stated we need to make decisions about what's good for the District. Doesn't matter if people get upset. Board Chairman Butler did state compromise would be doing seasonally, and agree make it educational to the community.

Board vice-Chair Place said when I was in the business it was about doing the best job for the least amount of money. Board Member Meier stated Dave as the Manager will do the the right thing for the moment, and I support that. 7-8 months out of the year you can make compost, the other few months haul it off, and that will make everyone feel good. We will make sure people are aware, slowly educate.

Board Chairman Butler stated I think the important thing is we are moving in a positive direction, environmentally and financially to make things better.

By general consensus will continue composting when viable and effective, but will use other means to dispose of the remaining sludge if needed.

Discussion concluded.

9. FUTURE AGENDA ITEMS

Board Chairman Butler directed the Board Members that if they have any items for the agenda to contact the District Manager.

10. ADJOURNMENT

Board Chairman Butler adjourned the meeting at approximately 7:08 PM.

Adopted and approved this 9th Day of February 2022.

c/c Patrick B. Place
Patrick B. Place, Board Vice-Chair