

Village District of Eastman
Commissioners' Meeting–Village District of Eastman Office
June 15, 2011
Minutes

In attendance: Commissioners Sullivan, Fairweather and Wood; District Manager Weber; Operator Perez; Clerk McClory; Moderator Miller; Andy Deegan of the Ausbon Sargent Land Preservation Trust; Paul Howard and Jenna Rzasa of Tata & Howard.

David Miller was sworn in as moderator, after which he left the meeting.

Conservation Easement Discussion Andy Deegan, of Ausbon Sargent Land Preservation Trust, provided information on the conservation easement proposed for 161 acres of land belonging to Barraspur Limited located off Philbrick Hill Road in Springfield, upland from the well field and abutting Bog Brook. It is also crossed by Biers Road, a Class 6 road owned by the town of Springfield. Deegan said the ASLPT has been working on the easement for two years and is working in conjunction with the Eastman Charitable Foundation. ASLPT has asked VDE for \$2,500 to pay a portion of the land survey, and the VDE commissioners asked Deegan to come answer questions about how the district will benefit from the easement.

Commissioner Wood asked if the easement would prohibit the installation of wells if the district had the need to expand. Deegan said it prohibits industrial uses, which includes a well for other than private use. He noted that it would not prohibit the taking of land for wells by eminent domain. The easement goes with the land no matter who buys or inherits it. The benefit to the property owner, aside from protecting the land for future generations, is a federal tax deduction.

The \$2,500 being asked from the VDE would be used for a property survey. Deegan said there currently do not appear to be any issues with the title. The owner and the ECF have both given \$5,000 toward the survey, which Deegan hopes will be completed by the end of summer. Once the easement is in place, the land can be used by the public for recreational purposes, including snowmobiles and ATVs unless the owner restricts vehicular uses.

Deegan said the owner can reserve the right to have two house lots for development (a total of 15 acres), both of which must have access from Philbrick Hill Road and must meet town requirements for development.

Commissioner Sullivan asked if the VDE could get money back if the easement did not go through and what benefits the easement would be to the district if it cannot install a well in the future. Deegan said the money will be used for the survey and cannot be returned. Commissioner Fairweather said the major benefit is taking the land out of possible development and, therefore, providing well head protection. Commissioner Wood said the district has money for conservation activities such as this and he believes the easement would be a win for the district.

Commissioner Wood moved that the Village District of Eastman provide \$2,500 in cash to the Ausbon Sargent Land Preservation Trust in support of the required survey in anticipation that a conservation easement will be placed on the Barraspur Limited property located off Philbrick Hill Road in Springfield, New Hampshire. Commissioner Fairweather seconded the motion. Unanimous approval.

District Manager Weber turned over to Deegan a \$2,500 check.

SRF UPDATE: Jenna Rzasa and Paul Howard of Tata & Howard provided an update on the new well project. The water quality test results show good quality water, with traces of iron and manganese, which, they said, were not unexpected. Rzasa distributed pump test data and preliminary design considerations (attached). The test results will go to the Department of Environmental Conservation.

The current proposal is for three wells and one meter for the entire field. Rzasa said it would be to the district's disadvantage to meter each well rather than all three together when considering water production. Discussion turned to the purchase of submersible pumps versus using the vertical turbine pumps the district already owns. Pros and cons were listed on the handout. In brief, other comments included that Source 1 cannot be used for water production during the installation of the vertical turbines, which limits the amount of water available to the community and may limit the work to post-Labor Day or later. There also may be problems with retrofitting.

Commissioner Wood asked what the recommendation would be if the decision needed to be made immediately. Howard said they would recommend submersible pumps because it is much cleaner installation and would last approximately 20 to 25 years and go several years between cleanings. Howard said a decision needs to be made in two weeks. District Manager Weber said the commissioners do not meet until after that and asked Howard to get him information to forward to the commissioners so a decision can be made. A special meeting will be called if needed. It was mentioned that lightning protection will be included in the cost estimates.

FIELD: Operator Perez said the final season of valve work begins Monday, June 20, and flushing will begin the week after. The number 6 well was struck by lightning, with minor disruption. A 10,000-gallon/day leak was found in the Snow Hill area. It is the owner's responsibility and they are working with the owner to get it fixed. Valves at the water treatment plant are locking up and have to be opened and closed manually. Replacement solenoids have been ordered.

FINANCIAL REPORT:

1. CDs come due for three trust funds. Met with Trustee Bob Fogg and he said he needs an answer by July 29. See chart below. DM Weber said the district may renew the CDs at Sugar River Bank.

Commissioner Fairweather made a motion to not renew the meter replacement reserve and to renew for a 12-month period the well renovation reserve CD and the vehicle equipment reserve CD, which mature July 9, at the quoted interest rate of 0.75 percent/year. Commissioner Wood seconded the motion. Unanimous approval.

2. Vote from board to authorize DM to fund trust funds. The CIP amount voted on this year was \$111,230. As with every year this amount is usually split between June and December due to our cash flow timing. The DM is recommending funding \$56,230.00 now and the balance of \$55,000.00 in December, (See spreadsheet below), which shall be incorporated into the draft and final minutes.

Commissioner Fairweather made a motion that the district manager deliver the following checks to the Trustees of The Trust Funds for the purpose of funding the following Capital Reserve Accounts:

1. Inventory Hardware	\$ 15,000
2. Vehicle and Equipment Replacement	\$ 5,000
3. Filter Media Replacement	\$ 2,000
4. Generator and Pump Stations	\$ 8,000
5. Office Building	\$ 13,230
6. Computer S'ware and Upgrades	\$ 3,000
7. Building Maintenance	\$ 5,000
8. Storage Tank Repair and Maint	\$ 5,000

For a total of \$56,230.00 in CIP funding.

Commissioner Wood seconded. Unanimous approval.

Commissioner Fairweather made a motion that the district manager request from the Trustees of The Trust Funds reimbursement from the following accounts:

1. Inventory Hardware	\$ 4,343.15
2. Computer S'Ware and Up Grades	\$ 2,964.15
3. Generators and Pumps	\$ 1,740.00
4. Water Mains and Valves	\$ 2,761.96

For a total of \$11,809.26 in reimbursements.

Bill second. Unanimous.

3. DM Weber said it was discovered that the software lumps all payments into one lump sum rather than breaking them out into payments for water usage and payments for water turn on. Payroll looks high because there were three pay periods in May. All reimbursements are up to date for the SRF.

OLD BUSINESS:

1. **Rate structure and billing:** In addition to what was on the agenda, DM Weber said ECA has requested VDE reconsider charging ECA the commercial rate on usage that benefits the entire community. ECA is requesting a refund on the last two bills. Commissioner

Fairweather said this issue should be handed at a separate meeting. He proposed having a subcommittee propose recommendations at a regular meeting. Commissioners Fairweather and Wood and Treasurer Wright will schedule a subcommittee meeting with DM Weber. Tentative time: 9 a.m. July 6.

NEW BUSINESS:

1. This is last meeting prior to the Open House. Set up duties and responsibilities for the day. Rented tent and port-a-potties. Office Manager Conroy will take care of food. Self-guided tours will be allowed, with commissioners, DM Weber and Operator Perez on hand to answer questions. Perhaps have commissioners posted at various points in the plant. Open house is 9-2 with food served 10-2. There will be no rain date because a tent has been rented.
2. Commissioners reviewed all 6 items from Recommendation Committee. (attached)

Commissioner Fairweather left 9:35.

MINUTES:

Commissioner Wood made a motion to approve the May minutes as amended. Commissioner Sullivan seconded the motion. Unanimous approval.

OTHER:

DM Weber said the New Hampshire Waterworks Association will offer a for-credit class on iron/manganese treatment at the VDE water plant Sept. 8, with lunch at the club house.

The meeting was adjourned at 9:48 a.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lorie McClory", written in a cursive style.

Lorie McClory

**Village District of Eastman
Grantham, New Hampshire
Replacement Wells Update – June 2011**

Overview of Pump Test Data

	Total Drawdown (ft)	Total Well Depth (ft)
Well No. 1-10 (Red)	13.98	25
Well No. 6-10 (Blue)	9.52	26
Well No. 7-10 (Green)	13.05	26

Pump test data, which was obtained from Smith Pump on Friday, May 13, is currently being incorporated into a pump test report to submit to NHDES. We expect to obtain a combined withdrawal capacity from the replacement wells of 150 gpm.

Water Quality Results

Based on the water quality results taken during the pump test, the parameters of interest are manganese (Mn) and radon:

<u>Well No. 1-10</u>	<u>Well No. 6-10</u>	<u>Well 7-10</u>
570 pCi/l radon	360 pCi/l radon	510 pCi/l radon
0.142 mg/l Mn	0.281 mg/l Mn	ND

The secondary maximum contaminant level (SMCL) for manganese is 0.05 mg/l. There is no current MCL for radon, but the proposed level is 300 pCi/l, with an alternative MCL (AMCL) of 4,000 pCi/l. The proposed AMCL, if approved, would require the VDE to implement an approved multi-media mitigation (MMM) outreach program.

MPA testing for the well closest to the wetlands (Well No. 6-10) was required. The MPA testing results classified the well as low risk for surface water contamination. No other MPA testing was required.

Preliminary Design Considerations

Single flow meter or individual meters:

- We anticipate NHDES to allow the replacement wells to be operated as a wellfield, requiring only one combined flow meter for all three wells.
- Metering options
 - Meter in the existing pump station possible if vertical turbine pumps are relocated within the station.
 - Meter in metering vault if submersible pumps used.

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Pumping Systems- Submersible pumps or turbine pump:
– Advantages and disadvantages of each configuration.

Type of Pump	Advantages	Disadvantages
Submersible	<ul style="list-style-type: none"> • Ease of construction without disruption of use of wellfield 	<ul style="list-style-type: none"> • Drawdown from pump test impacts available water column
	<ul style="list-style-type: none"> • All new infrastructure 	<ul style="list-style-type: none"> • Cost to pull pumps during cleanings
		<ul style="list-style-type: none"> • Three required
Vertical turbine	<ul style="list-style-type: none"> • Reuse of existing pumps possible with modifications to collection well 	<ul style="list-style-type: none"> • Potential for unanticipated conditions during design and construction
	<ul style="list-style-type: none"> • Drawdown not a factor in design 	<ul style="list-style-type: none"> • Difficult to keep wellfield operational during construction
	<ul style="list-style-type: none"> • No costs associated with pulling pumps during cleanings 	

Notes:

1. The existing collection well cannot be utilized since the source of bacteria from the existing dug wells is unknown.
2. New piping in the wellfield proposed under both design considerations.
3. Gate valves recommended at each well for shutoff capabilities.