

**EAST LYME WATER & SEWER COMMISSION
SPECIAL MEETING MINUTES
Thursday, FEBRUARY 11th, 2016**

Present: Mark Nickerson, Chairman, Dave Bond, Steve DiGiovanna, David Jacques, Dave Murphy, Carol Russell, Roger Spencer

Also Present: Joe Bragaw, Public Works Director
Brad Kargl, Municipal Utility Engineer
Anna Johnson, Finance Director

FILED IN EAST LYME
CONNECTICUT
Feb 11, 2016 AT 2:20 AM PM
Carin Falls
EAST LYME TOWN CLERK

Absent: Dave Zoller, Joe Mingo

1. Call to Order

Chairman Nickerson called this Special Meeting of the East Lyme Water & Sewer Commission to order at 6:30 PM and led the assembly in the Pledge of Allegiance.

2. Review of Water Capital Improvement Plan

Mr. Nickerson turned the meeting over to Mr. Kargl to explain the information that he had given them and what he is looking for. (Attachments)

Mr. Kargl said that he would explain the items that he is looking for authorization on and that would use up to \$429,304 from the \$808,177.64 that is in the Water department Capital Budget. He said that he is looking for authorization on the short term project items 1 through 13.

Mr. Kargl went through the various items and noted that they could barely do one of the larger projects and that he does not think that they can do the meter replacement program that they have been talking about here. He suggested doing it incrementally within the budget. He also noted that the CT DPH is on board with the Well 1A & 2A treatment study (Item #1 on the list)

Mr. Bragaw explained that they have around \$50,000 in the budget each year that could be used for the new meters with the object being to do the older meters that are having trouble and that have perhaps slowed down over time and really need to be changed. New installations would also get the new meters.

Mr. Bond said that they should have a set plan each year on how many and where they will be replacing meters rather than always kicking this item down the road all the time. And – new projects coming on line should always have the new meter system.

Mr. Bond also asked about Item #4 – the Society Road Bridge at \$35,000 as he had thought that they discussed it being a lot cheaper.

Mr. Kargl said that the worst case is the \$35,000 and that he has Mr. Scheer working with the DOT on it to try to get the costs down.

Ms. Russell said that she is concerned with the Well 6 project under the long term projects.

Mr. Kargl said that he is waiting for the Tighe & Bond study to come back before anything is done. He noted that they are discussing the short term projects this evening. He continued that items 4 and 5 relating to the bridge work need to be done at this time as the bridge work is being done now. He also explained the booster pump station work and how it would be done.

Mr. Jacques asked how much it was to re-line versus the installation of the VFD's.

Mr. Kargl said that it would probably be in the \$8000 to \$12,000 range.

Mr. Jacques questioned if – for instance on King Arthur Drive – they could install 2 VFD's for less than the \$8,000 to \$12,000.

Mr. Kargl said that would be something that they would have to look at before doing the work. He continued that Well 5 needs to be cleaned and surged every 2 years due to iron and he recently found that we had lost 14% capacity after that work when it should have come back up. He said that he thinks that is a red flag that they need to start thinking of a replacement Well 5 within the 250' radius of the current well.

Mr. Bond asked what a new well would cost.

Mr. Kargl said that worst case – within the 250' radius - \$500,000 and it may be cheaper with the new technology that is out there today. He continued that the Roxbury Road tank has some sediment that will be removed under the operational budget while the work listed here for \$10,000 is for rusted anchor bolts and the concrete pad. The last item - #13 – the Chesterfield Pump Station - \$33,000 is for the installation of the materials that have already been purchased – 1 pump and 1 VFD.

Mr. Nickerson said that they are looking for a motion to authorize spending for the 13 short term projects.

****MOTION (1)**

Mr. DiGiovanna moved to approve up to \$429,304 from the Water Construction Account, for short term projects listed 1 through 13 in the attached spreadsheet entitled, "Proposed and/or Ongoing Capital Projects, \$6.5 Million Authorization," dated February 11, 2016.

Mr. Murphy seconded the motion.

Vote: 7 – 0 – 0. Motion passed.

Ms. Johnson reviewed the debt amortization schedules (\$6M) for Well 1A and Well 2A Treatment Improvements. She noted that Mr. Kargl has said that they are ready to move forward with this project and as indicated in the schedules (attached) the year 2019 would represent nearly a \$1M debt service payment. If it were delayed a bit, it could be reduced. (Attachments)

Mr. Nickerson said that ideally moving this out two years would greatly help.

Mr. Bragaw suggested that they try to have \$125,000 in the budget in capital to try to offset the spike. He said that the biggest issue that he sees is getting over the spike.

Mr. Bond asked about doing one at a time.

Mr. Jacques asked if their timing is realistic that it would be in a year.

Mr. Kargl said that the State thinks so – with the design being done by the end of the year.

Mr. Nickerson went back to Mr. Bond's question about doing them one at a time –

Mr. Bond asked where the money comes from for this – the ratepayers.

Mr. Kargl said yes, the money comes from the ratepayers.

Mr. Bond said that is a 40% increase and asked if they have looked for any grants or other money that is available to help with this.

Mr. Kargl said that he would keep on top of looking for funding.

Mr. Bond noted that they are getting ahead of themselves here until they see the study results.

Ms. Johnson said to answer Mr. Bond and Mr. Nickerson's question, that the State expects that the projects would be done together rather than one at a time.

Mr. Nickerson thanked everyone for coming for this Special Meeting.

3. Adjournment

****MOTION (2)**

Mr. DiGiovanna moved to adjourn this Special Meeting of the East Lyme Water & Sewer Commission at 7:42 PM.

Mr. Bond seconded the motion.

Vote: 7 – 0 – 0. Motion passed.

Respectfully submitted,

Karen Zmitruk,
Recording Secretary

Water Department Capital Budget Status			
26-Jan-16			
Project	Budget	Balance	Project % Complete
1 Shore Road/Water Main Replacement	\$ 198,000.00	\$ 23,021.53	100
2 Replacement Well 2A	\$ 500,000.00	\$ 177,046.00	100
3 Replacement Well 3B	\$ 1,000,000.00	\$ 11,051.00	99
4 Security/Well Improvements	\$ 100,000.00	\$ 85,034.16	5
5 Emergency Power Generators	\$ 225,000.00	\$ 109,976.00	50
6 Aquifer Mapping	\$ 225,000.00	\$ 5,682.00	100
7 Water Storage Tank	\$ 400,000.00	\$ -	100
8 Regional Development	\$ 25,000.00	\$ (2,954.00)	100
9 Chlorination/Bulk Chemical Storage	\$ 1,650,000.00	\$ 37,675.00	100
10 Well 4A Improvements	\$ 50,000.00	\$ 50,000.00	0
11 Bedrock Well Development	\$ 380,000.00	\$ 9,278.39	100
12 Regional Interconnection Project	\$ 500,000.00	\$ 33,827.75	93
13 Stream Augmentation	\$ 125,000.00	\$ 10,048.81	100
14 Corey Lane Water Main Replacement	\$ 100,000.00	\$ -	100
15 Pine Grove Water Main Replacement	\$ 170,000.00	\$ -	100
16 Replacement Well 1A	\$ 500,000.00	\$ -	100
17 Booster Station Upgrades	\$ 50,000.00	\$ 1,758.00	97
18 Water Main Improvements	\$ 9,200.00	\$ 2,300.00	75
19 Columbus Ave Bridge Water Main	\$ 70,000.00	\$ -	100
20 Well 5 Roof Replacement	\$ 10,000.00	\$ 3,200.00	100
21 Unallocated (undesignated)	\$ 251,233.00	\$ 251,233.00	0
Total	\$ 6,538,433.00	\$ 808,177.64	

* most current

Attachment was 2/11/16

Project Name	Total	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	2021-2050
1 Water Supply Development								
Replacement Well 1A	\$ 1,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000.00
Replacement Well 2A	\$ 1,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000.00
Replacement Wells 3A, 3B, 4A & 6	\$ 4,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000.00
Replacement Well 5	\$ 1,525,000.00	\$ -	\$ 25,000.00	\$ -	\$ 500,000.00	\$ -	\$ -	\$ 1,000,000.00
Regional Interconnection	\$ 8,213,465.00	\$ 8,180,465.00	\$ 33,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Stream Augmentation (Well 5 and 6)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Darrow Pond Backrock Well Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Four Mile River Well Development (Rt. 1)	\$ 3,500,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,500,000.00
Well Development (Pat. River Aqu. - North of I-95)	\$ 3,500,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,500,000.00
RO Treatment / LI Sound	\$ 15,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000,000.00
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 Water Treatment Plant Improvements								
System-wide Chlorine Disinf. & Chem. Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bride Lake Treatment Plant Fe/Mn Filter Rebed	\$ 570,000.00	\$ 90,000.00	\$ 90,000.00	\$ 90,000.00	\$ -	\$ -	\$ -	\$ -
Well 5 Treatment Plant Fe/Mn Filter Rebed	\$ 285,000.00	\$ -	\$ -	\$ 45,000.00	\$ 45,000.00	\$ -	\$ -	\$ 300,000.00
Well 4A Treatment Plant Fe/Mn Filter Rebed	\$ 285,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,000.00
Well 6 Treatment Plant Filter Rebed	\$ 150,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000.00
Well 1/1A GAC Upgrades (incl. in Well 1A Fe/Mn Filtr Pl.)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Well 1A Fe/Mn Filtr. Plant upgrade to Well 6 Tr. Pl.	\$ 3,537,500.00	\$ -	\$ 37,500.00	\$ 3,500,000.00	\$ -	\$ -	\$ -	\$ -
Well 2A Fe/Mn Filtr. Plant upgrade to BrLk. Tr Pl.	\$ 2,537,500.00	\$ -	\$ 37,500.00	\$ 2,500,000.00	\$ -	\$ -	\$ -	\$ -
Backwash Lagoons/Basins (Wells 3A/3B/5 & 6)	\$ 100,000.00	\$ -	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -	\$ 90,000.00
3 Water Distribution/Storage Improvements								
Water Main Improvements	\$ 2,038,000.00	\$ -	\$ 38,000.00	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000.00
Water Storage Tank Painting and Refurbishment	\$ 1,960,000.00	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,950,000.00
Booster Station/Hydropneumatic Tank Refilling	\$ 125,000.00	\$ -	\$ -	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00
Booster Station Pump Refurbishment	\$ 257,000.00	\$ 35,000.00	\$ 72,000.00	\$ 50,000.00	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	\$ 60,000.00
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 Controls/ Instr./SCADA/ Emergency Power								
SCADA Improvements	\$ 88,000.00	\$ -	\$ 8,000.00	\$ -	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 50,000.00
Emergency Generator Well 1A	\$ 100,000.00	\$ -	\$ -	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -
Emergency Generators-Booster Stations	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00
5 Customer Service/Demand Management								
Water Replacement Program	\$ 2,200,000.00	\$ -	\$ -	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 2,000,000.00
Comprehensive Water Audit	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ 80,000.00	\$ -	\$ -
Leak Detection Surveys and Mitigation	\$ 132,000.00	\$ -	\$ -	\$ 12,000.00	\$ -	\$ 12,000.00	\$ -	\$ 108,000.00
Media Communications Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 Permitting/Planning								
Well 3A Diversion Permit Renewal (Exp. 8/26/23)	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00
Well 5 Diversion Permit Renewal (Exp. 8/21/33)	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00
Well 6 Diversion Permit Renewal (Exp. 10/30/22)	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00
Reg. Int. Diversion Permit Renewal (Exp. 3/29/17)	\$ 56,250.00	\$ 1,298.00	\$ -	\$ 5,000.00	\$ -	\$ -	\$ -	\$ 50,000.00
Water Supply Plan Update (Apr. 2/16/07)	\$ 255,000.00	\$ -	\$ 5,000.00	\$ -	\$ -	\$ -	\$ -	\$ 250,000.00
Water Treatment Wastewater General Permits	\$ 50,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000.00
7 Source Water Protection								
Level A Aquifer Mapping	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Well 1A and 6 Groundwater Monitoring Network	\$ 75,000.00	\$ -	\$ -	\$ -	\$ 75,000.00	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 Security								
Security Fencing/Cameras	\$ 45,000.00	\$ 5,000.00	\$ -	\$ -	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00	\$ -
9 Miscellaneous								
Well 4A Air Gap	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
Hydraulic Model	\$ 100,000.00	\$ -	\$ -	\$ -	\$ 5,000.00	\$ -	\$ -	\$ 95,000.00
Building Upgrades / Rehabilitation	\$ 516,800.00	\$ -	\$ 6,800,000.00	\$ 20,000.00	\$ -	\$ 5,000.00	\$ 5,000.00	\$ 430,000.00
Columbus Ave Water Main Bridge Crossing	\$ 70,000.00	\$ 70,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals	\$ 53,706,515.00	\$ 8,381,715.00	\$ 362,800.00	\$ 6,422,000.00	\$ 725,000.00	\$ 367,000.00	\$ 1,065,000.00	\$ 36,383,000.00

* Operations \$6.5 Million Auth.
New Authorization

↑ (revised in larger spreadsheet)
Attachment was 2/11/16

Proposed and/or Ongoing Capital Projects
\$6.5 Million Authorization
11-Feb-16

SHORT TERM PROJECTS	FY 16	FY 17	FY18 and later	Total Amount	Remaining Capital Balance	Status	SHORT TERM PROJECTS	
							Study initiated; complete 5/16 was authorized to be completed	Materials ship next week; install 2/16 or 3/16
1 Well 1A & 2A Treatment Study	\$ 75,000	\$ -	\$ -	\$ 75,000	\$ 733,177			
2 Bride Lake Filter Refurb. (Filters 2 & 5) - Install	\$ 32,000	\$ -	\$ -	\$ 32,000	\$ 701,177			
3 Clarks Hollow Blow-off Installation	\$ 11,304	\$ -	\$ -	\$ 11,304	\$ 689,873	Completed 11/15; original estimate was \$7,000		
4 Society Road Bridge	\$ -	\$ 35,000	\$ -	\$ 35,000	\$ 654,873	Approx. \$6,000 spent to date on bridge modifications; review options, worst case cost		
5 Route 1 Bridge over Pattagansett River	\$ 18,000	\$ -	\$ -	\$ 18,000	\$ 636,873	"Betterment" work to coincide with CTDOT water main relocation; purchase mat. now; 4/1/16 start date		
6 Rt 1 Bridge over Pattagansett River (State Reimb.)	\$ 20,000	\$ -	\$ -	\$ 20,000	\$ 616,873	CTDOT watermain relocation; reimbursable cost; purchase materials now; 4/1/16 start date		
7 MacKinnon Place Booster Station Upgrade	\$ 36,000	\$ -	\$ -	\$ 36,000	\$ 580,873	Recommend that pumps and controls be ordered now due to 6 week lead time; complete by 5/1/16		
8 Jean Drive Booster Station Upgrade	\$ 36,000	\$ -	\$ -	\$ 36,000	\$ 544,873	Recommend that pumps and controls be ordered now due to 6 week lead time; complete by 6/1/16		
9 Well 5 Replacement Well Investigation	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ 519,873	Well 5 is losing capacity; 26 years old, complete preliminary investigation by 12/31/16		
10 SCADA Control Imp. for Chemical Feed Lockouts	\$ 8,000	\$ -	\$ -	\$ 8,000	\$ 511,873	Complete by 2/16 (call Lorchina X-copt via B. Dobrowic)		
11 Bride Lake Filter Refurbishment (Filters 1 & 6)	\$ 90,000	\$ -	\$ -	\$ 90,000	\$ 421,873	The last two of six filters to be refurbished by 3/17		
12 Roxbury Road Water Storage Tank Improvements	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ 411,873	Anchor bolt and conc crack repair and valve chamber access hatch repl.; complete by 7/1/16		
13 Chesterfield PS Jockey Pump/VFD Install	\$ 33,000	\$ -	\$ -	\$ 33,000	\$ 378,873	Modeling for valve backflow - this is for installation		
Short Term Projects Subtotals	\$ 304,304	\$ 125,000	\$ -	\$ 429,304	\$ 378,873			
LONG TERM PROJECTS								
2 Well 5 Filter Refurbishment	\$ -	\$ 45,000	\$ 90,000	\$ 135,000	\$ 243,873	Spend over 3 years		
3 Well 1A GAC and Well 6 Fe/Mn Filter Refurb.	\$?	\$?	\$?	\$?	\$ 243,873	Evaluate after treatment study findings		
4 Ancient HWY Booster Station Upgrade	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ 193,873			
5 Emergency Generator Well 1A	\$ -	\$ 100,000	\$ -	\$ 100,000	\$ 93,873			
6 Security Fencing, Cameras	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 53,873			
7 Well 4A Air gap	\$ -	\$ 25,000	\$ -	\$ 25,000	\$ 28,873			
8 Building Upgrades - Well 1A GAC Filter Building	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ 8,873	Evaluate after treatment study findings		
Long Term Projects Subtotals	\$ -	\$ 240,000	\$ 130,000	\$ 370,000	\$ 8,873			
TOTALS	\$ 304,304	\$ 365,000	\$ 130,000	\$ 799,304	\$ 8,873			

In the process of being done
Already completed
Due for reimbursement - most likely will not need to be taken from the bond

Projects looking to do

*** looking for authorization on items 1-13

Attachment was 2/11/16

This section

Basic operational duties associated with the booster pump stations include maintaining the equipment, recording flow data on a weekly basis, and performing emergency shut down tests.

2005 TOWN OF EAST LYME WATER SUPPLY PLAN UPDATE

TABLE IV-2

BOOSTER PUMP FACILITIES

Location	Installation Date	Customer Services	Pump HP	Pumping Capacity	100% Emergency Power	Hydro-pneumatic Storage (gal)
Ancient Highway	1973	40	10	2 @ 177 gpm	Yes	1500
Sunrise Trail	1977	13	3	2 @ 25 gpm	No	1810
Village Drive	1986	45	3	2 @ 25 gpm	Yes	1800
Jean Drive	1987	14	3	2 @ 25 gpm	Yes	1800
MacKinnon Place	1987	14	3	2 @ 25 gpm	Yes	1750
King Arthur Drive	1992	120	2	2 @ 25 gpm	Yes	3300
Cedar Brook	1993	14	2	2 @ 38 gpm	Yes	1500
Chapman Woods	1995	112	3	2 @ 25 gpm	Yes	1750
Sleepy Hollow ¹	2005	32	5	2 @ 40 gpm	Yes	1,000
Orchards @ East Lyme	2006	161	30	3 @ ___ gpm	Yes	1,000

¹ Sleepy Hollow will be on line approximately April 28, 2005 pending DPH final approval. Pump TDH of 90 Feet.

for these 2 - would like to order materials later this year -

TRANSMISSION AND DISTRIBUTION

There is currently approximately 102 miles of underground pipe in the Town's municipal water distribution system. The distribution and transmission mains are as shown on Figure IV-1, the Water Supply and Distribution System Map, Existing Service Area.

The pipe sizes vary from 4-inch water mains to 16-inch transmission lines. An analysis of the Town's water distribution system was completed, indicating the following:

1. There is approximately 262,540 feet of 4-inch, 6-inch, 8-inch, 10-inch, 12-inch **CAST IRON** piping.
2. There is approximately 204,700 feet of **DUCTILE IRON** piping, ranging from 4-inch to 16-inch.
3. There is approximately 70,760 feet of 4-inch, 8-inch, 10-inch and 12-inch **ASBESTOS CEMENT** piping.

Attachment notes 2/11/16

TOWN OF EAST LYME, CONNECTICUT

PRO FORMA DEBT AMORTIZATION SCHEDULES

\$6,000,000

WELL 1A AND WELL 2A TREATMENT IMPROVEMENTS

PREPARED BY:



February 10, 2016

Attachment Wes 2/11/16

TOWN OF EAST LYME
\$6,000,000 - WELL 1A & WELL 2A
TREATMENT IMPROVEMENTS
PRO FORMA DEBT AMORTIZATION
TOTAL DEBT SERVICE
ENTERPRISE FUND

EXISTING PRINCIPAL & INTEREST

<u>FISCAL YEAR</u>	<u>TOTAL EXISTING DEBT SERVICE</u>
2016	\$ 485,423
2017	504,903
2018	506,913
2019	631,343
2020	419,613
2021	408,948
2022	401,198
2023	409,208
2024	397,007
2025	466,618
2026	455,950
2027	437,340
2028	426,725
2029	358,855
2030	330,155
2031	45,955
2032	21,682
2033	10,841
TOTAL	\$ 6,718,678

Attachment 2/11/16

**TOWN OF EAST LYME
\$6,000,000 - WELL 1A AND WELL 2A TREATMENT IMPROVEMENTS
PRO FORMA DEBT AMORTIZATION**

DEBT SERVICE SCHEDULE - PRINCIPAL & INTEREST

FISCAL YEAR	ENTERPRISE FUND EXISTING DEBT SERVICE	Estimated Debt Service DWSRF @ 2.00% Well 1A \$500,000 for design work 6/30/2017	Estimated Debt Service DWSRF @ 2.00% Well 2A \$5,500,000 for electrical work 6/30/2018 to 6/30/2020	ENTERPRISE FUND TOTAL ESTIMATED DEBT SERVICE	FISCAL YEAR
2016	\$ 485,423	\$ 25,000	\$ 485,423	2016	
2017	504,903	30,071	529,903	2017	
2018	506,913	30,071	811,984	2018	
2019	631,343	30,071	992,191	2019	
2020	419,613	30,071	780,461	2020	
2021	408,948	30,071	769,796	2021	
2022	401,198	30,071	762,046	2022	
2023	409,208	30,071	770,056	2023	
2024	397,007	30,071	757,855	2024	
2025	466,618	30,071	827,466	2025	
2026	455,950	30,071	816,799	2026	
2027	437,340	30,071	798,189	2027	
2028	426,725	30,071	787,574	2028	
2029	358,855	30,071	719,704	2029	
2030	330,155	30,071	691,004	2030	
2031	45,955	30,071	406,804	2031	
2032	21,682	30,071	382,530	2032	
2033	10,841	30,071	371,689	2033	
2034		30,071	360,848	2034	
2035		30,071	360,848	2035	
2036		30,071	360,848	2036	
2037		30,071	330,778	2037	
TOTAL	\$ 6,718,678	\$ 596,343	\$ 6,559,774	\$ 13,874,796	TOTAL

Spice

←

Attachment vus 2/11/16

**TOWN OF EAST LYME
\$6,000,000 - WELL 1A & WELL 2A TREATMENT IMPROVEMENTS
PRO FORMA DEBT AMORTIZATION**

