

Minutes of a Regular Meeting of the Town Board of the Town of Thompson held at the Town Hall, 4052 State Route 42, Monticello, New York and held remotely via Zoom on **August 04, 2020.**

ROLL CALL:

Present: Supervisor William J. Rieber, Jr., Presiding
Councilman Scott S. Mace
Councilman John A. Pavese
Councilwoman Melinda S. Meddaugh
Councilman Ryan T. Schock

Also Present: Marilee J. Calhoun, Town Clerk
Michael B. Mednick, Attorney for the Town
Melissa DeMarmels, Town Comptroller
Patrice Chester, Deputy Administrator
Glenn Somers, Parks & Recreation Superintendent

Present via Zoom: Karen Schaefer, Supervisor's Confidential Secretary
Michael G. Messenger, Water & Sewer Superintendent
Kelly M. Murran, Deputy Town Clerk

REGULAR MEETING – CALL TO ORDER

Supervisor Rieber opened the meeting at 7:00 PM with the Pledge to the Flag. Supervisor Rieber announced that this meeting was held in person, but due to the Coronavirus (COVID-19) Pandemic the meeting was closed to public access. However the meeting was held via Videoconferencing and streamed live on the Zoom app and Facebook Live, which is accessible to the public. The meeting is also being recorded for full transcription purposes should it be required.

MONTHLY REPORTS FOR JULY 2020 RECEIVED AND FILED

Dog Control Officer's Report
Comptroller's Budgetary Report

APPROVAL OF MINUTES:

On a motion made by Councilman Mace and seconded by Councilwoman Meddaugh the minutes of the July 21st, 2020 Regular Town Board Meeting were approved as presented.

Vote: Ayes 5 Rieber, Pavese, Schock, Meddaugh and Mace
 Nays 0

PUBLIC COMMENT:

There was no public comment given.

CORRESPONDENCE:

Supervisor Rieber reported on correspondence that was sent or received as follows:

- **Susan Cockburn, Asst. Engineer, NYS DEC:** Letter dated 07/24/20 to Supervisor Rieber Re: Acceptance of Emerald Green WWTP Temperature Management Plan.
- **SC IDA:** 2018 Distribution of PILOT Payments – Check # 1692, \$8,093.22 (Mountain Pacific Realty, LLC).

AGENDA ITEMS:

1) KIAMESHA LAKE WWTP IMPROVEMENT PROJECT: CONTINUED DISCUSSION & REVIEW OF MAP, PLAN & REPORT – COMPLETED BY DELAWARE ENGINEERING, D.P.C.

Helen Budrock, Senior Planner and John Peterson, P.E. of Delaware Engineering, DPC were present to continue discussion regarding the proposed Kiamesha Lake WWTP Improvement Project. A 25-minute presentation was held explaining the Revised Kiamesha Lake WWTP Upgrade Fact Sheet and Estimated Project Cost Summary, which were provided and appended to these minutes.¹ There was discussion between the Town Board and Engineer Peterson pertaining to the three different options, the ATAD system, sludge disposal and projected rate impacts. The Town Board opted to go with option A, which can always be downsized and project scaled back if necessary. The estimated cost is \$26.5 Million. Potential funding options were also discussed. The Map, Plan & Report will be revised for consideration at the next Town Board meeting.

2) EMERALD GREEN WWTP IMPROVEMENT PROJECT: CONTINUED DISCUSSION & REVIEW OF MAP, PLAN & REPORT – COMPLETED BY DELAWARE ENGINEERING, D.P.C.

Helen Budrock, Senior Planner and John Peterson, P.E. of Delaware Engineering, DPC were present to continue discussion regarding the proposed Emerald Green WWTP Improvement Project. A 20-minute presentation was held explaining the Revised Emerald Green WWTP Upgrade Fact Sheet and Estimated Project Cost Summary, which were provided and appended to these minutes.² There was discussion between the Town Board and Engineer Peterson pertaining to the plant capacity and projected rate impacts. The Town Board is opting to increase the current plant capacity from 0.410 MGD to 0.475 MGD to allow for growth and expansion when necessary. The estimated cost is \$13,553,241.00. Potential funding options were also discussed. The Map, Plan & Report will be revised for consideration at the next Town Board meeting.

3) COLD SPRING ROAD SEWER DISTRICT EXTENSION NO. 07 – APPROVE FINAL ORDER FOR LEISURE ACRES SUMMER HOME, LLC

The Following Resolution Was Duly Adopted: Res. No. 255 of the Year 2020.

¹ ATTACHMENT: KIAMESHA LAKE WWTP UPGRADE FACT SHEET & ESTIMATED PROJECT COST SUMMARY

² ATTACHMENT: EMERALD GREEN WWTP UPGRADE FACT SHEET & ESTIMATED PROJECT COST SUMMARY

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In the Matter of Extension No. 07 of the
COLD SPRING ROAD SEWER DISTRICT
in the Town of Thompson, County of
Sullivan, State of New York.

**FINAL ORDER EXPANDING
COLD SPRING ROAD SEWER
DISTRICT**

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A resolution having been duly adopted by the Town Board of the Town of Thompson directing Town Engineers, McGoey, Hauser and Edsall Consulting Engineers, P.C., to supervise the preparation of a map, plan and report relating to the extension of the Cold Spring Road Sewer District in the Town of Thompson, and said map, plan and report were duly filed in the office of the Town Clerk, and an order having been duly adopted by the said Town Board on October 4, 2016, reciting a description of the boundaries of the said proposed district, the improvements proposed, the maximum amount proposed to be expended for said improvements, the proposed method of financing to be employed, the fact that a map, plan and report were on file in the Town Clerk's Office for public inspection, and specifying the 15th day of November, 2016, at 7:30 o'clock, P.M., Prevailing Time, at the Town Hall, 4052 Route 42, Monticello, New York, in said Town, as the time when and the place where said Town Board would meet for the purpose of holding a public hearing to hear all persons interested in the proposal to expand the said sewer district and after due publication and posting of said order according to law, said hearing was duly held by said Board at such time and place, and the Town Board having considered said proposal and heard all persons interested in the same, and did, on November 15, 2016, resolve and determine that the notice of hearing for November 15, 2016, was published and posted as required by law, and otherwise sufficient, that all the property and property owners within the created district would be benefitted thereby, that all property and property owners benefitted were included within the limits of the created district, and that it was in the public interest to

grant and hold the relief sought, and it having been then and there further duly resolved that the creation of such district as proposed be approved subject to permissive referendum in the manner provided in Article 7 of the Town Law, and a certificate of the Town Clerk having been duly filed pursuant to subdivision 4 of Section 209-e of the Town Law certifying that no petition was filed requesting such a referendum, and it appearing to the satisfaction to the said Town Board that no application pursuant to Town Law Section 209-f is required to be made to the State Department of Audit and Control,

NOW, THEREFORE, IT IS HEREBY

ORDERED, that the Cold Spring Road Sewer District, in the Town of Thompson, Sullivan County, New York, be, and the same hereby is, extended, to be bounded and described as more particularly set forth in Schedule A annexed hereto and made a part hereof; and it is further

ORDERED, that the Town Board, acting for and on behalf of the said Cold Spring Road Sewer District, as extended be, and it hereby is, authorized to make such improvements in said district as may be required for the proposed operation thereof, provided that the required funds for the same are made available or provided for; and it is further

ORDERED, that the entire amount to be expended for such improvements, including, but not limited to, costs of construction, engineering, administrative, legal and other fees and expenses, shall be borne solely and entirely by Leisure Acres Summer Homes LLC; and it is further

ORDERED, that the Town Clerk of the Town of Thompson be, and she hereby is, authorized and directed to cause a certified copy of this order to be duly recorded in the office of

the Clerk of Sullivan County, in which the Town of Thompson is located, within ten (10) days after adoption of this order; and it is further

ORDERED, that the Town Clerk be, and she hereby is, authorized and directed to file a certified copy of this order in the office of the Department of Audit and Control, Albany, New York, within ten (10) days after the adoption hereof, if so required.

Dated: Monticello, New York
August 04, 2020

Motion by: Councilman John A. Pavese
Seconded by: Councilman Ryan T. Schock
Vote: 5 Ayes, 0 Nays

William J. Rieber, Jr., Supervisor	Voted	Yes
Scott S. Mace, Councilman	Voted	Yes
John A. Pavese, Councilman	Voted	Yes
Melinda S. Meddaugh, Councilwoman	Voted	Yes
Ryan T. Schock, Councilman	Voted	Yes

SCHEDULE A

NARRATIVE DESCRIPTION COLD SPRING ROAD SEWER EXTENSION No. 7

FOR TAX LOTS 29-2-13, 29-2-22, 29-2-23

Beginning at a Point along the easterly boundary of the existing Cold Spring Road Sewer District also being a point along the westerly right of way line of Waverly Avenue and a point on the easterly boundary line of Tax Lot 29-2-15.3. Thence; traveling in an easterly direction across the right of way of Waverly Avenue to the easterly right of way line of Waverly Avenue to the northwesterly corner of Tax Lot 29-2-13 and the southwesterly corner of Tax Lot 29-2-12.1. Thence; in an easterly direction along the northerly boundary of Tax Lot 29-2-13 and the southerly boundary of Tax Lot 29-2-12.1 to the northeasterly corner of Tax Lot 29-2-13 as well as the corner of Tax Lot 29-2-12.1. Thence; in a southerly direction along the easterly boundary of Tax Lot 29-2-13 and the westerly boundary of Tax Lot 29-2-12.1 to the southeasterly corner of Tax Lot 29-2-13 and a point along the westerly boundary of Tax Lot 29-2-12.1 and the northeasterly corner of Tax Lot 29-2-22. Thence; continuing in a southerly direction along the easterly boundary of Tax Lot 29-2-22 and 29-2-23 as well as the westerly boundary of Tax Parcel 29-2-12.1 to the southeasterly corner of Tax Parcel 29-2-23 and the southwesterly corner of Tax Parcel 29-2-12.1 also the northeasterly corner of Tax Parcel 29-2-24. Thence; in a westerly direction along the southerly boundary of Tax Parcel 29-2-23 and the northerly boundary of 29-2-24 to the westerly right of way line of Cold Spring Road as well as the southwesterly corner of Tax Parcel 29-2-23 and the northwesterly corner of Tax Parcel 29-2-24. Thence; continuing in a westerly direction across the right of way of Cold Spring Road in a westerly direction to a point along the easterly boundary of Tax Parcel 29-1-20.2 also being the boundary of the existing Cold Spring Road Sewer District. Thence; following the easterly boundary of the Cold Spring Road Sewer District and the easterly boundary of Tax Lot 29-2-20.2 to the intersection of Cold Spring Road and Waverly Avenue. Thence; continuing across the intersection of Cold Spring Road and the westerly boundary off Waverly Avenue to the

Moved by: Councilman Pavese Seconded by: Councilman Schock
Vote: Ayes 5 Rieber, Pavese, Schock, Meddaugh and Mace
 Nays 0

7) BUDGET TRANSFERS & AMENDMENTS

There were no budget transfers or amendments for this meeting.

8) ORDER BILLS PAID

The Following Resolution Was Duly Adopted: Res. No. 259 of the Year 2020.

Resolved, that all regular bills for the course of the month, which have been properly audited be approved for payment. A complete list of the regular bills as identified can be found appended to these minutes as per attached.³

Moved by: Councilman Pavese Seconded by: Councilman Schock
Vote: Ayes 5 Rieber, Schock, Meddaugh, Pavese, and Mace
 Nays 0

9) UPDATE: CORONAVIRUS (COVID-19) PANDEMIC

Supervisor Rieber said that the Town is slowing starting to return to in-person meetings. This meeting seems to be working out well so far. An additional speaker and screen for the Town Board's viewing was suggested. Other suggestions and possible recommendations to be considered for the future were also discussed.

OLD BUSINESS:

There was no old business reported on.

NEW BUSINESS:

EMERALD GREEN SEWER DISTRICT PUMP STATION 1, 2 & 3 PROJECT FOR CRESCENT CIRCLE & LAKE LOUISE MARIE ROAD SEWER FORCE MAIN SURVEY, MH&E PROPOSAL # 4716 – REVIEW & APPROVE PROPOSAL FOR SURVEY WORK

The Following Resolution Was Duly Adopted: Res. No. 260 of the Year 2020.

Resolved, that the Proposal of Mercurio-Norton-Tarolli-Marshall (MNTM) Engineering & Land Surveying, PC for Professional Surveying Services related to the Emerald Green Sewer District Crescent Circle & Lake Louise Marie Road Sewer Force Main Survey (MH&E Proposal # 4716) for a total estimated cost of \$9,800.00 for all services specified in the submitted Proposal, hereby be approved and the Town Supervisor hereby be authorized to execute any necessary documents in connection with said Proposal.

Moved by: Councilman Pavese Seconded by: Councilwoman Meddaugh
Vote: Ayes 5 Rieber, Pavese, Schock, Meddaugh and Mace
 Nays 0

³ ATTACHMENT: ORDER BILLS PAID

**MELODY LAKE WATER DISTRICT WATERMAIN REPLACEMENT PROJECT:
APPROVE CHANGE ORDER NO. 2 FOR GENERAL CONSTRUCTION CONTRACT –
GREEN ACRES EXCAVATING AND CONSTRUCTION CORP.**

The Following Resolution Was Duly Adopted: Res. No. 261 of the Year 2020.

Resolved, that Change Order No. 2 for Melody Lake Water District Water Main Replacement Project with Green Acres Excavating and Construction Corp. (General Construction Contract) for \$20,244.90, (total contract price of \$412,285.90) due to 1) Additional Test Pits – Performed to located waterline, 2) Additional Service Length Installed at the Request of the Town (Outside of Pavement), 3) Additional Service Length Installed at the Request of the Town (Inside of Pavement) & 4) Credit for Pavement Section Modification as Approved by the Town Highway Superintendent and that the Town Supervisor be authorized to execute said change order as presented.

Motion by: Councilman Mace

Seconded by: Councilwoman Meddaugh

Vote: Ayes 5 Rieber, Pavese, Schock, Meddaugh, and Mace

Nays 0

SUPERVISOR'S REPORT:

Supervisor William J. Rieber, Jr.

- Update regarding Tropical Storm Isaias, which caused power outages and flooding throughout the area.

COUNCILMEN & DEPARTMENT HEAD REPORTS:

Parks & Recreation Superintendent Glenn R. Somers

- Status of Asbestos Abatement Project and Air Monitoring, Decommissioning of the tanks and pools including the cleanup at the Lake Ida Park F/K/A Camp Jened Property. He thanked the Highway Department for all of their assistance with the removal of the old tanks. Also looking into the removal of some trees along roadway.

Water & Sewer Superintendent Michael G. Messenger

- Melody Lake Water Main Replacement Project status update almost complete.
- Dillon Farms Water House Project status update almost complete.

Deputy Administrator Patrice Chester

- Sullivan Renaissance Committee has invited the Town to provide a presentation on Wednesday, August 12th regarding the \$400,000.00 Grant Project.
- USDA Grant Application submitted on behalf of the Melody Lake Water District.

Town Comptroller Melissa DeMarmels

- Provided a Mortgage Tax update from information received by the County of Sullivan.
- Auditors are working on completing the audit for the Town.

Councilman Scott S. Mace

- Status of Town Employee Manual, which they are still working on completing.

Councilman John A. Pavese

- Monticello Elks Lodge Drive-Thru Chicken BBQ Dinner tomorrow evening 4-7PM.

PUBLIC COMMENT:

There was no public comment given.

ANNOUNCEMENTS, REMINDERS & FOR YOUR INFORMATION

- August 4th at 7PM: Regular Town Board Meeting.

ADJOURNMENT

On a motion made by Councilman Pavese and seconded by Councilwoman Meddaugh the meeting was adjourned at 8:16 PM. All voted in favor of adjournment.

The Zoom Livestream Videoconferencing connection and Facebook Live were disconnected.

Respectfully Submitted By:

Marilee J. Calhoun

Marilee J. Calhoun, Town Clerk

Kiamesha Lake WWTP Upgrade FACT SHEET

WHY UPGRADE?

- The plant is approaching the end of its useful life and employs older technologies that are costly to maintain.
- In order to maintain SPDES permit compliance, the Town is required to install disinfection facilities by May 2022. Without this upgrade and the proposed UV disinfection, the plant will be out of compliance.
- This is the only plant with functional sludge handling and processing equipment, so sludge from all of the other plants is sent to Kiamesha processing. New technologies (ATAD thermal processing) could reduce the overall sludge volume thereby lowering disposal costs.
- Plant is operating at 50% capacity on average, so no additional capacity is needed at this time.

PLANT CAPACITY:

Current Capacity: 2.0 MGD

Proposed Increase: N/A

RANGE OF COSTS (see attached)

Option A: \$26.5M

*New UV disinfection system
Improved sludge processing
New ATAD system
New maintenance building*

Option B: \$21.7M

*New UV disinfection system
Improved sludge processing
New ATAD system*

Option C: \$13.3M

*New UV disinfection system
Improved sludge processing*

PROJECTED RATE IMPACT

Sewer districts that send wastewater to the Kiamesha WWTP include Anawana, Harris Woods, Lake View and Adelaar. These districts each have their own budgets for O&M and debt service and are charged a portion of the costs of the Kiamesha WWTP based on their contributed percentage of flow to the plant. Sewer districts that send sludge to the Kiamesha WWTP for processing and disposal include Emerald Green, Sackett Lake and Melody Lake districts.

Annual Cost Impact for the Typical User					
	Kiamesha ¹	Anawana ²	Harris Woods ²	Lake View ²	Adelaar ⁴
Current (2020) Costs	\$512.32	\$403.33	\$1,600.01	\$956.00	\$12,853.33
Projected Costs – Option A ⁵	\$718.86	\$497.90	\$1,744.94	\$1,499.58	\$15,179.79
Projected Costs – Option B ⁵	\$679.88	\$486.25	\$1,721.00	\$1,366.30	\$14,623.49
Projected Costs – Option C	\$620.43	\$435.65	\$1,666.42	\$1,276.30	\$14,396.41

1. A point schedule is used to distribute costs among users without the benefit of metered water data. A single-family home in the Kiamesha district is assigned 7.5 points for O&M and 7.5 points for capital.
2. A single-family home in the Anawana, Harris Woods or Lake View district is assigned 10 points for O&M and 10 points for capital.
3. Homes in the Lake View sewer district are still under construction and not fully occupied, so current costs are those estimated in the Lake View MPR.
4. Users in the Adelaar district pay one point per property, and there are 69 points assigned to that district.
5. Options A and B assume that the total capital costs associated with the new ATAD system and improved sludge processing (\$6.87 million) would be proportionately split among all sewer districts that send wastewater to the Kiamesha plant, as well as the districts that send sludge to Kiamesha for processing and disposal. A typical user in the Emerald Green, Sackett Lake and Melody Lake Districts would pay an additional \$46.82 per year as their share of the capital costs. Annual sludge disposal costs will go down with the ATAD system, but those potential savings were not factored into the rate impact analysis.

ATAD COST-BENEFIT ANALYSIS (see attached)

The town could save as much as **\$114,873** annually with the new ATAD system due to reductions in energy consumption and sludge disposal costs (assuming the biosolids are given away as fertilizer rather than landfilled). The annual debt payment at 0% interest for all of the sludge handling improvements (\$6.87M) is **\$229,126**. Annual septage tipping revenue (0.04/gal) could also help offset the capital costs of the ATAD and other sludge processing improvements.

**Town of Thompson, NY
Kiamesha Lake WWTP Upgrade
Estimated Project Cost Summary**

Last Revised 07-31-2020

	OPTION A 2019 PER Budget	OPTION B No DPW Bldg	OPTION C No DPW/No ATAD
1.) Construction - All Trades (General, Electrical, HVAC, & Plumbing)			
a.) Influent Channel/Flow Splitter Box Process Improvements	\$ 34,000	\$ 34,000	\$ 34,000
b.) Mechanical Screen Process Improvements	\$ -	\$ -	\$ -
c.) Grit Removal Process Improvements	\$ -	\$ -	\$ -
d.) Oxidation Ditch D1 & D2 Process Improvements	\$ 949,140	\$ 949,140	\$ 949,140
e.) Oxidation Ditch D3 Process Improvements	\$ 330,925	\$ 330,925	\$ 330,925
f.) Blower Building Process Improvements	\$ 558,146	\$ 558,146	\$ 558,146
g.) Secondary Clarifier Process Improvements	\$ 1,200	\$ 1,200	\$ 1,200
h.) Filter Building Process Improvements	\$ 564,450	\$ 564,450	\$ 564,450
i.) UV Disinfection Process	\$ 1,043,250	\$ 1,043,250	\$ 1,043,250
j.) Polishing Lagoon Process Improvements	\$ -	\$ -	\$ -
k.) Sludge Holding Tank Process Improvements	\$ 267,250	\$ 267,250	\$ 267,250
l.) RAS/WAS Pump Process Improvements	\$ 355,200	\$ 355,200	\$ 355,200
m.) Aerobic Sludge Digester Process (Added chiller \$60,000)	\$ 5,171,780	\$ 5,171,780	\$ -
n.) Sludge Dewatering Process Improvements and Sludge Tanker Truck	\$ 1,033,400	\$ 1,033,400	\$ 1,033,400
o.) Sludge Drying Bed Improvements	\$ 401,360	\$ 401,360	\$ 401,360
p.) Pump Station Process Improvements	\$ 46,400	\$ 46,400	\$ 46,400
q.) Control Building Improvements	\$ 191,305	\$ 191,305	\$ 191,305
r.) Grit Removal Building Improvements	\$ 28,150	\$ 28,150	\$ 28,150
s.) Filter Building Improvements	\$ 477,025	\$ 477,025	\$ 477,025
t.) Storage Building Improvements (old Blower Building)	\$ 40,400	\$ 40,400	\$ 40,400
u.) Blower Building Improvements	\$ 83,900	\$ 83,900	\$ 83,900
v.) WWTP Work Shop/8-Bay Maintenance Building (9,900 SF) - New Item	\$ 2,944,100	\$ -	\$ -
w.) Yard Piping	\$ 387,145	\$ 387,145	\$ 387,145
x.) Site Work (Revised to include Paving limited to WWTP Work Shop area, disturbance <1 AC, no SWPPP req)	\$ 185,106	\$ 185,106	\$ 185,106
y.) SCADA	\$ 438,000	\$ 438,000	\$ 438,000
z.) Instrumentation	\$ 70,950	\$ 70,950	\$ 70,950
aa.) WWTP Emergency Generator	\$ 576,000	\$ 576,000	\$ 576,000
ab.) Other Expenses	\$ 85,200	\$ 85,200	\$ 85,200
ac.) NYSEFC Contract Compliance	\$ 38,500	\$ 38,500	\$ 38,500
ad.) Contractors Overhead and Profit (15% Max)	\$ 2,442,342	\$ 2,000,727	\$ 1,224,860
ae.) Mobilization/Demobilization/Bonds/Insurance (3% Max)	\$ 561,739	\$ 460,167	\$ 281,741
Subtotal - All Construction	\$ 19,286,363	\$ 15,799,076	\$ 9,673,103
5.) Construction Cost Inflation Adjustment (@3% per year, August 2019 - Sept. 2021 Bidding = 2 Years)	\$ 1,157,182	\$ 947,945	\$ 580,386
Subtotal - Construction Cost Inflation Adjustment	\$ 1,157,182	\$ 947,945	\$ 580,386
Subtotal - All Construction	\$ 20,443,545	\$ 16,747,021	\$ 10,253,489
6.) Other Costs (18%)	\$ 3,679,838	\$ 3,014,464	\$ 1,845,628
a.) Engineering/Professional Services	\$ 3,531,886	\$ 2,866,512	\$ 1,697,676
Subtotal - Engineering/Professional Services	\$ 3,531,886	\$ 2,866,512	\$ 1,697,676
b.) Other Town Costs (includes short term financing for preconstruction phase \$1.5M @ 5% for 1 year)	\$ 147,952	\$ 147,952	\$ 147,952
Subtotal - Other Town Costs	\$ 147,952	\$ 147,952	\$ 147,952
Subtotal - Other Costs	\$ 3,679,838	\$ 3,014,464	\$ 1,845,628
7.) Project Contingency (10% of Construction and Other Costs)	\$ 2,412,338	\$ 1,976,148	\$ 1,209,912
Subtotal - Project Contingency (10% of All Project Costs)	\$ 2,412,338	\$ 1,976,148	\$ 1,209,912
8.) SRF Issuance Costs (1.84%) (If hardship this goes to 0%)	\$ -	\$ -	\$ -
Subtotal - SRF Issuance Cost (1.84% of All Project Costs)	\$ -	\$ -	\$ -
Total Estimated Project Cost	\$ 26,535,721	\$ 21,737,633	\$ 13,309,029

ThermAer® Evaluation for Kiamesha, NY WWTP

<u>Parameters</u>	Aerobic Digestion	ThermAer	
Current loadings lbs/day	1151	1151	
TS Destruction across digestion	20.00%	60.00%	
Digested Solids	921	460	
Cake Solids %	22%	28%	
CAKE WASTING			
Wet tons/day	2.1	0.8	
Dry tons/day	0.46	0.23	
CHEMICAL COST			
Chemical dewatering costs to be the same for both cases	-	-	
ENERGY CONSUMPTION FOR DIGESTORS			
Operating Hours/day	24	24	
Connected Horsepower	50	VARIABLE	
Connected Power	37	VARIABLE	
Power Consumed Kw/hr/day	895	592	
Cost of Electricity/year at 0.1/Kw	\$32,675	\$21,608	
ENERGY CONSUMPTION FOR DEWATERING (PLATE & FRAME vs. BELT FILTER PRESS 200)			
Operating Hours/day	8	2	
Days per Week Operating (days)	7	1	
Connected Horsepower	25	15	
Power Consumed Kw/hr/day	200	30	
Cost of Electricity/year at 0.1/Kw	\$7,280	\$156	
DISPOSAL COST			
Disposal Cost \$118.00 per wet ton			
Disposal Cost per year	\$90,134	\$35,410	landfill
		\$0	given away
O & M COSTS			
O M Costs for Plate & Frame vs. BFP	\$7,618	\$1,069	
O M Costs for digestion assumed to be equal	-	-	
ANNUAL COST	\$137,706	\$58,242	<u>Annual Cost Savings:</u>
		\$22,833	\$79,464 if landfilled
			\$114,873 if given away
SEPTAGE REVENUE			
Current Septage Capacity gallons @1.5% TS	0	19584	
Annual Septage Tipping Revenue 0.04/gal	0	\$285,926	\$783.36 per day
Future Design Septage Capacity gallons @1.5% TS	0	10391	
Annual Septage Tipping Revenue 0.04/gal	0	\$151,709	Annual septage tipping revenue will be reduced if plant flow increases to design capacity

ADDITIONAL NOTES:

There was no credit taken for reduced liability for Class A biosolids
 There was no credit taken for the increased lifespan of the belt press due to less operating time per day.

Emerald Green WWTP Upgrade FACT SHEET

WHY UPGRADE?

- The plant is approaching the end of its useful life (30 years)
- Modifications to the SPDES permit were recently requested to extend the deadline for compliance with discharge limits for fecal coliform and total residual chlorine. If approved, these modifications will go into effect as of May 1, 2022. Removing the chemical disinfection and switching to UV disinfection is recommended, thereby avoiding possible exceedances of the SPDES permit limit for Total Residual Chlorine.
- Plant is operating at 70-85% capacity on average and additional capacity may be desired to support future growth.
- The plant does not currently have facilities for processing waste sludge, which is hauled to the Town's Kiamesha WWTP for processing

PLANT CAPACITY:

Current Capacity: **0.410 MGD** Proposed Increase: **0.475 MGD**

RANGE OF COSTS

Estimated Cost: **\$13,553,241** (see attached)

PROJECTED RATE IMPACT

Current Sewer Rates for the Typical User						
	Emerald Green - Lake Louise Marie ¹			Rock Hill Sewer District ²		
Annual O&M Cost	\$601.80			\$803.45		
Annual Debt Service	\$217.00			\$112.35		
Total	\$818.80			\$915.80		
Future Sewer Rates for the Typical User ³						
	Emerald Green - Lake Louise Marie			Rock Hill Sewer District		
	0%	1.65%	3.3%	0%	1.65%	3.3%
Annual O&M Cost	\$601.80	\$601.80	\$601.80	\$803.45	\$803.45	\$803.45
Annual Debt Service	\$217.00	\$217.00	\$217.00	\$112.35	\$112.35	\$112.35
Additional Debt Service ⁴	\$357.71	\$454.96	\$566.24	\$274.86	\$349.58	\$435.09
Total	\$1176.51	\$1273.76	\$1385.04	\$1190.66	\$1265.38	\$1350.89

1. Rates are based on # of points assigned to each property. A typical single-family home pays 10 points for capital and 10 for O&M.

2. Rates are based on metered water usage. A single-family home or small business pays a minimum usage charge of 90,000 gallons per year.

3. Based on total capital expenditure of \$13,553,241 and no increase in annual O&M costs.

3. If the town decides to proceed with the ATAD system at the Kiamaesha WWTP and the capital costs associated with sludge processing are split among district users that send their sludge to Kiamesha, the typical user would see an additional increase of approx. \$46.82 per year.

Town of Thompson, NY
Emerald Green WWTP Upgrade
Estimated Project Cost Summary

Last Revised 07-28-2020

Rehab in-kind of Existing SBR's (0.410 MGD) and
New SBRs (Up to 0.074 MGD), 0.475 MGD Total

1.) Construction - All Trades (General, Electrical, HVAC, & Plumbing)		Estimated Cost	Major Cost Items
a.) Headworks Improvements			
	Influent manhole rehabilitation		\$ 310,030
	ULT flow sensor & transmitter	\$ 50,000	
	Mechanical screen	\$ 5,250	
	Compactor (complete with cold weather package)	\$ 95,680	
	Structure Repair	\$ 80,100	
	Gate repairs and replacment	\$ 14,000	
	Electrical	\$ 25,000	
	Non-potable water supply for washer compactor	\$ 25,000	
		\$ 15,000	
b.) Influent Holding Tank Improvments			
	Influent Holding Tank Equipment (replace 3 pumps, & rails)	\$ 35,000	\$ 77,000
	Influent Holding Tank Repair	\$ 15,000	
	Other Misc. Influent Holding Tank Work	\$ 10,000	
	Electrical	\$ 17,000	
c.) SBR Tank Improvements (0.410 MGD)			
	SBR Tank Equipmt (replace jet aerators, & pumps)		\$ 983,300
	SBR Tank Blowers	\$ 759,500	
	SBR Tank Repair	\$ 163,800	
	Other Misc. SBR Work	\$ 20,000	
	Electrical	\$ 20,000	
d.) SBR Process Construction (0.074 MGD)			
	1 Tank SBR Structures (tank only, cast in place, installed, 42'X44'X21')	\$ 1,050,000	\$ 1,944,320
	SBR Equipment Package	\$ 433,320	
	SBR Tank Blowers	\$ 126,000	
	Misc. Metals	\$ 85,000	
	Misc. process piping	\$ 100,000	
	Electrical	\$ 70,000	
	Site Work	\$ 80,000	
e.) Post SBR Equalization Tank 1			
	Post SBR Equalization tank 1 repairs	\$ 15,000	\$ 15,000
f.) Post SBR Equalization Tank 2			
	Post SBR Equalization tank 1 Equipment (replace 2 pumps, & rails)	\$ 52,500	\$ 102,500
	Post SBR Equalization tank 1 repairs	\$ 40,000	
	Electrical	\$ 10,000	
g.) Sand Filter Improvements (0.401 MGD to 0.475 MGD)			
	Sand Filter Equipment (Replace in kind eg. steel tanks)	\$ 866,800	\$ 1,121,800
	Piping and valve replacment & repair	\$ 25,000	
	Misc. Metals	\$ 70,000	
	Other Misc. Sand Filter Work	\$ 70,000	
	Backwash Pumps (replace 2 pumps, & rails)	\$ 60,000	
	Electrical	\$ 30,000	
h.) UV Disinfection			
	UV equipment	\$ 202,500	\$ 292,500
	Structure modifications	\$ 30,000	
	Piping modifications	\$ 35,000	
	Electric	\$ 25,000	
i.) Post Aeration -			
	Post Aeration Tank Blowers (135 scfm)		\$ 98,500
	Tank Diffusers & Blowers (45-9" fine bubble diffusers)	\$ 16,000	
	Electric	\$ 37,500	
	Site Work	\$ 20,000	
		\$ 25,000	
j.) Sludge Dewatering Improvements			
	Air diffusers (Replace in kind) 36 Coarse Bubble Diffusers	\$ 20,000	\$ 1,772,463
	New Blowers	\$ 146,900	
	Tank Dewatering	\$ 10,000	
	Upgrade Sludge Pump	\$ 59,063	
	New Sludge Pump	\$ 67,500	
	Miscellaneous Metals	\$ 75,000	
	Dewatering Building with Sludge Holding Tank (30' X 30' = 900 SF X \$750/SF)	\$ 675,000	
	0.75 Meter Gravity Belt Thickener	\$ 333,000	
	New sludge pipe from Sludge Building to Dewatering Building (110LF, 6" @ \$200/LF)	\$ 22,000	
	New NPW line to the Dewatering Building (300 LF, 4" @ \$200/LF)	\$ 60,000	
	New potable water line to the Dewatering Building (160 LF, 1" @ \$75/LF)	\$ 12,000	
	New pump stations for press supemantant	\$ 25,000	
	Misc. Repairs	\$ 50,000	

Town of Thompson, NY
Emerald Green WWTP Upgrade
Estimated Project Cost Summary

Last Revised 06-29-2020

Rehab in-kind of Existing SBR's (0.410 MGD) and
New SBRs (Up to 0.074 MGD), 0.475 MGD Total

	Estimated Cost	Major Cost Items
Electrical	\$ 100,000	
HVAC	\$ 50,000	
Plumbing	\$ 50,000	
New Pavement (1700 sq. ft. X \$10/ sq. ft.)	\$ 17,000	
k.) Yard Piping		\$ 166,500
New gravity 14" main from UV Channel to new Post Air Tank(140 LF @ 250/LF)	\$ 35,000	
New 8" forcemain from filter backwash to areated sludge holding tank (140 LF @ 225/LF)	\$ 31,500	
New 4" NPW feed pipe from the post air tank to the filter bldg. (120 LF @ 200/LF)	\$ 8,000	
Other (misc. valves, hydrants, etc.)	\$ 100,000	
l.) Site Work		\$ 100,520
Mill and 2" Pave around WWTP inside the fence (16,840 SF @ \$3/sf)	\$ 50,520	
Erosion and sediment control	\$ 50,000	
Stormwater Facilities (none planned; < 1 acre of disturbance)	\$ -	
m.) SCADA	\$ 200,000	\$ 200,000
n.) Instrumentation	\$ 100,000	\$ 100,000
o.) WWTP Emergency Generator		\$ 405,000
New generator (250kW)	\$ 325,000	
Electric service upgrades	\$ 80,000	
p.) Existing Building and Other Facility Improvements		\$ 320,000
General Contract	\$ 85,000	
Electrical Contract	\$ 75,000	
Plumbing Contract	\$ 75,000	
HVAC Contract	\$ 85,000	
q.) Other Expenses		\$ 80,000
Misc. existing pipe supports	\$ 20,000	
Misc electrical yard piping	\$ 35,000	
Decommissioning/repurposing of exlsting facilities	\$ 25,000	
r.) NYSEFC Contract Compliance (4 prime contracts)	\$ 64,000	\$ 64,000
s.) Contractors Overhead and Profit (15% Max)	\$ 1,223,015	\$ 1,223,015
t.) Mobilization/Demobilization/Bonds/Insurance (3% Max)	\$ 281,293	\$ 281,293
Subtotal - All Construction	\$ 9,657,741	\$ 9,657,741
2.) Construction Cost Inflation Adjustment (@3% per year, June 2020- June, 2022 Bidding = 2 Years)	\$ 579,464	\$ 579,464
Subtotal - Construction Cost Inflation Adjustment	\$ 579,464	\$ 579,464
Subtotal - All Construction	\$ 10,237,205	\$ 10,237,205
3.) Other Costs (20%)	\$ 2,047,441	\$ 2,047,441
a.) Engineering/Professional Services	\$ -	
b.) Bond Council	\$ -	
c.) Legal	\$ -	
d.) Misc. Other Town Costs	\$ -	
e.) DRBC Project Review Fee	\$ -	
f.) Short Term Financing Cost (Assume 1 year \$500K BAN @ 4%; remaining peoject under SRF 0% short term financing)	\$ -	
Subtotal - Other Costs	\$ 2,047,441	\$ 2,047,441
Subtotal - Construction and Other Costs	\$ 12,284,646	\$ 12,284,646
4.) Project Contingency (10% of Construction and Other Costs)	\$ 1,023,721	\$ 1,023,721
Subtotal - Project Contingency (10% of All Project Costs)	\$ 1,023,721	\$ 1,023,721
5.) SRF Issuance Costs (1.84%) (Since it's hardship this goes to 0%)	\$ 244,874	\$ 244,874
Subtotal - SRF Issuance Cost (1.84% of All Project Costs)	\$ 244,874	\$ 244,874
Total Estimated Project Cost	\$ 13,553,241	\$ 13,553,241



Town of Thompson
Warrant Report

Town of Thompson
Warrant Report

I hereby certify that the vouchers listed on the attached abstracts of prepaid and claims payable have been duly audited and are presented for payment to the Town Board of the Town of Thompson at the regular meeting there of, held on the 15th day of August 2020 in the amounts respectively specified. Authorization is hereby given and direction is made to pay each of the claimants in the amount as specified upon each claim stated.


Melissa DeMarnels, Comptroller


William J. Rieber Jr., Supervisor



Town of Thompson
Warrant Report

Fund	Fund Description	Unposted Batch Totals		Manual Checks		Purchase Cards		Total	
		Invoice Batch	Manual Checks	Paid	Unpaid	Paid	Unpaid	Paid	Unpaid
DA00	HWY#3 / 4 - TOWN WIDE	\$0.00	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$0.00
DB00	HWY#1 - TOWN OUTSIDE	\$0.00	\$0.00	\$300,000.00	\$0.00	\$300,000.00	\$0.00	\$300,000.00	\$0.00
SAR0	ADELAAR RESORT SEWER DISTRICT	\$0.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
SHW0	HARRIS WOODS SEWER	\$0.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$0.00
SSA0	ANAWANA SEWER DISTRICT	\$0.00	\$0.00	\$14,400.00	\$0.00	\$14,400.00	\$0.00	\$14,400.00	\$0.00
SSD0	DILON SEWER DISTRICT	\$0.00	\$0.00	\$5,600.00	\$0.00	\$5,600.00	\$0.00	\$5,600.00	\$0.00
SSG0	EMERALD GREEN SEWER	\$0.00	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$0.00
SSH0	HARRIS SEWER DISTRICT	\$0.00	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$0.00
SSK0	KIAMESHA SEWER DISTRICT	\$0.00	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$0.00
SSR0	ROCK HILL SEWER DISTRICT	\$0.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
SSS0	SACKETT LAKE SEWER DISTRICT	\$0.00	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$0.00
SWA0	ADELAAR RESORT WATER DISTRICT	\$0.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00
SWK0	KIAMESHA RT42 WATER	\$0.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00
Unposted Batch Grand Totals		\$0.00	\$0.00	\$700,000.00	\$0.00	\$700,000.00	\$0.00	\$700,000.00	\$0.00

Fund	Fund Description	Posted Batch Totals		Manual Checks		Purchase Cards		Total	
		Invoice Batch	Manual Checks	Paid	Unpaid	Paid	Unpaid	Paid	Unpaid
A000	GENERAL FUND TOWN WIDE	\$97,464.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$97,464.31	\$0.00
B000	GENERAL TOWN OUTSIDE	\$16,714.10	\$0.00	\$0.00	\$0.00	\$61.25	\$0.00	\$16,775.35	\$0.00
CD00	HOME COMM. DEV. FUND	\$0.00	\$0.00	\$0.00	\$0.00	\$10,498.11	\$0.00	\$10,498.11	\$0.00
DA00	HWY#3 / 4 - TOWN WIDE	\$60,974.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,974.40	\$0.00
DB00	HWY#1 - TOWN OUTSIDE	\$215,702.48	\$0.00	\$0.00	\$0.00	\$250,000.00	\$0.00	\$465,702.48	\$0.00
SAR0	ADELAAR RESORT SEWER DISTRICT	\$4,694.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,694.94	\$0.00
SHW0	HARRIS WOODS SEWER	\$216.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$216.17	\$0.00
SL11	ADELAAR	\$6,454.61	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,454.61	\$0.00
SRH0	ROCK HILL AMBULANCE DIST	\$7,213.91	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,213.91	\$0.00
SSA0	ANAWANA SEWER DISTRICT	\$2,281.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,281.50	\$0.00
SSD0	DILON SEWER DISTRICT	\$2,918.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,918.80	\$0.00
SSG0	EMERALD GREEN SEWER	\$16,138.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,138.56	\$0.00
SSH0	HARRIS SEWER DISTRICT	\$3,811.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,811.34	\$0.00
SSK0	KIAMESHA SEWER DISTRICT	\$59,720.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$59,720.11	\$0.00
SSLV	LAKEVIEW SEWER DISTRICT	\$238.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$238.13	\$0.00
SSM0	MELODY LAKE SEWER DISTRICT	\$1,368.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,368.14	\$0.00
SSR0	ROCK HILL SEWER DISTRICT	\$620.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$620.23	\$0.00
SSS0	SACKETT LAKE SEWER DISTRICT	\$7,185.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,185.36	\$0.00



Town of Thompson
Warrant Report

Fund	Fund Description	Invoice Batch	Report Grand Totals	Manual Checks	Purchase Cards	Total	
		Paid	Unpaid	Paid	Unpaid	Paid	Unpaid
SWA0	ADELAAR RESORT WATER DISTRICT	\$564.89	\$0.00	\$0.00	\$0.00	\$564.89	\$0.00
SWC0	COLD SPRING WATER	\$210.30	\$0.00	\$0.00	\$0.00	\$210.30	\$0.00
SWD0	DILLON WATER DISTRICT	\$2,384.06	\$0.00	\$0.00	\$0.00	\$2,384.06	\$0.00
SWK0	KIAMESHA RT42 WATER	\$205.68	\$0.00	\$0.00	\$0.00	\$205.68	\$0.00
SWL0	LUCKY LAKE WATER DISTR	\$229.26	\$0.00	\$0.00	\$0.00	\$229.26	\$0.00
SWM0	MELODY LAKE WATER	\$327.06	\$0.00	\$0.00	\$0.00	\$327.06	\$0.00
T000	TRUST & AGENCY FUND	\$20,759.29	\$0.00	\$0.00	\$0.00	\$21,035.68	\$0.00
Posted Batch Grand Totals		\$528,397.63	\$0.00	\$9,400.00	\$260,835.75	\$798,633.38	\$0.00

Fund	Fund Description	Invoice Batch	Report Grand Totals	Manual Checks	Purchase Cards	Total	
		Paid	Unpaid	Paid	Unpaid	Paid	Unpaid
A000	GENERAL FUND TOWN WIDE	\$97,464.31	\$0.00	\$0.00	\$0.00	\$97,464.31	\$0.00
B000	GENERAL TOWN OUTSIDE	\$16,714.10	\$0.00	\$0.00	\$0.00	\$16,714.10	\$0.00
CD00	HOME COMM. DEV. FUND	\$10,498.11	\$0.00	\$10,498.11	\$0.00	\$16,775.35	\$0.00
DA00	HWY#3 / 4 - TOWN WIDE	\$60,974.40	\$0.00	\$0.00	\$0.00	\$31,494.33	\$0.00
DB00	HWY#1 - TOWN OUTSIDE	\$215,702.48	\$0.00	\$0.00	\$0.00	\$60,974.40	\$100,000.00
SAR0	ADELAAR RESORT SEWER DISTRICT	\$4,694.94	\$0.00	\$0.00	\$0.00	\$465,702.48	\$300,000.00
SHW0	HARRIS WOODS SEWER	\$216.17	\$0.00	\$0.00	\$0.00	\$4,694.94	\$25,000.00
SL11	ADELAAR	\$6,454.61	\$0.00	\$0.00	\$0.00	\$216.17	\$25,000.00
SRH0	ROCK HILL AMBULANCE DIST	\$7,213.91	\$0.00	\$0.00	\$0.00	\$6,454.61	\$0.00
SSA0	ANAWANA SEWER DISTRICT	\$2,281.50	\$0.00	\$0.00	\$0.00	\$7,213.91	\$0.00
SSD0	DILLON SEWER DISTRICT	\$2,918.80	\$0.00	\$9,400.00	\$0.00	\$2,281.50	\$14,400.00
SSG0	EMERALD GREEN SEWER	\$16,138.56	\$0.00	\$0.00	\$0.00	\$12,318.80	\$5,600.00
SSH0	HARRIS SEWER DISTRICT	\$3,811.34	\$0.00	\$0.00	\$0.00	\$16,138.56	\$55,000.00
SSK0	KIAMESHA SEWER DISTRICT	\$59,720.11	\$0.00	\$0.00	\$0.00	\$3,811.34	\$35,000.00
SSLV	LAKEVIEW SEWER DISTRICT	\$238.13	\$0.00	\$0.00	\$0.00	\$59,720.11	\$100,000.00
SSM0	MELODY LAKE SEWER DISTR.	\$1,368.14	\$0.00	\$0.00	\$0.00	\$238.13	\$0.00
SSR0	ROCK HILL SEWER DISTRICT	\$620.23	\$0.00	\$0.00	\$0.00	\$1,368.14	\$0.00
SSSO	SACKETT LAKE SEWER DISTR	\$7,185.36	\$0.00	\$0.00	\$0.00	\$620.23	\$5,000.00
SWA0	ADELAAR RESORT WATER DISTRICT	\$564.89	\$0.00	\$0.00	\$0.00	\$7,185.36	\$20,000.00
SWC0	COLD SPRING WATER	\$210.30	\$0.00	\$0.00	\$0.00	\$564.89	\$10,000.00
SWD0	DILLON WATER DISTRICT	\$2,384.06	\$0.00	\$0.00	\$0.00	\$210.30	\$0.00
SWK0	KIAMESHA RT42 WATER	\$205.68	\$0.00	\$0.00	\$0.00	\$2,384.06	\$0.00
SWL0	LUCKY LAKE WATER DISTR	\$229.26	\$0.00	\$0.00	\$0.00	\$205.68	\$5,000.00
SWM0	MELODY LAKE WATER	\$327.06	\$0.00	\$0.00	\$0.00	\$229.26	\$0.00
T000	TRUST & AGENCY FUND	\$20,759.29	\$0.00	\$0.00	\$0.00	\$327.06	\$0.00
Grand Totals		\$538,895.74	\$0.00	\$19,898.11	\$260,835.75	\$819,629.60	\$700,000.00