BUDGET REPORT MULTI YEARS

| OPERATING BUDGET | | FY | 2020 | FY | 2021 | FY2022 | | | | | FY2023 |
|------------------------------|-------------|----|--------|----|--------|---------------|----|--------|----|-------|--------------|
| | | | | | | | | | | | PROPOSED |
| DISCRETIONARY | DETAIL | BU | JDGET | BU | DGET | BUDGET | S | PENT | BA | LANCE | |
| Major Improvements | | \$ | 15,000 | \$ | 15,000 | \$10,000.00 | \$ | 3,500 | \$ | 6,500 | \$ 10,000 |
| GR&R AND MATERIAL ROBINWOOD | | | | | | | \$ | 3,500 | | | |
| WASHOUT | | | | | | | | | | | |
| Annual Maintenance | | \$ | 12,000 | \$ | 12,000 | \$ 10,000 | \$ | 8,185 | \$ | 1,815 | \$ 10,000 |
| STONES FOR WINTER REPAIRS | \$ 2,100.00 | , | | | | | \$ | 2,600 | | | |
| Roadside mowing | \$ 1,250.00 | | | | | | \$ | 3,310 | | | |
| Clean Ditches | \$ 2,900.00 | | | | | | \$ | 2,025 | | | |
| SPRING CLEANUP | \$ 500.00 | | | | | | \$ | 250 | | | |
| General Road Maintenance: | | \$ | 11,000 | \$ | 11,000 | \$ 10,000 | \$ | 7,200 | \$ | 2,800 | \$ 13,000 |
| PotHole Upkeep Roads | | | | | | | \$ | 1,700 | | | |
| Fall GRR | \$ 3,250.00 | | | | | | | | | | |
| Spring GRR | \$ 3,250.00 | | | | | | | | | | |
| GR&R LONG BOW EAST roller | | | | | | | \$ | 5,500 | | | |
| Super Expenses | | \$ | 600 | \$ | 600 | \$ 600 | | | \$ | 600 | \$ 600 |
| Office Expenses: | | \$ | 1,000 | \$ | 1,000 | \$ 700 | \$ | 540 | \$ | 160 | \$ 700 |
| Supplies | | | | | | | | | | | |
| Storage Unit | | | | | | | \$ | 540 | | | |
| Phone/ad | | | | | | | | | | | |
| Prudential Comm Expenses | | \$ | 300 | \$ | 300 | \$ 300 | \$ | 359 | \$ | (59) | \$ 300 |
| Clerk Expenses | | \$ | 600 | \$ | 600 | \$ 300 | | | \$ | 300 | \$ 300 |
| Attorney's Fee | | \$ | 1,000 | \$ | 1,000 | \$ 3,000 | \$ | 1,401 | \$ | 1,599 | \$ 3,000 |
| Insurance, Bonding, W/H | | \$ | 2,000 | \$ | 2,000 | \$ 2,000 | \$ | 2,133 | \$ | (133) | \$ 2,000 |
| Insurance | | | | | | | \$ | 1,003 | | | |
| Bonds | | | | | | | \$ | 453 | | | |
| Withholding Tax | | | | | | | \$ | 677 | | | |
| FIXED COSTS | | | DGET | | DGET | U DGET | | PENT | | LANCE | PROPOSED |
| Winter Road Maintenance | | \$ | 17,000 | \$ | 16,800 | \$ 17,800 | \$ | 17,800 | \$ | - | \$ 17,800 |
| Town Mailing Costs | | \$ | 300 | \$ | 300 | \$ 300 | \$ | 275 | \$ | 25 | \$ 300 |
| Town of Becket Services | | \$ | 2,800 | \$ | 2,800 | \$ 2,800 | | 1,891 | \$ | 909 | \$ 2,800 |
| Super Salary | | \$ | 5,000 | \$ | 6,000 | \$ 6,000 | | 4,500 | \$ | 1,500 | \$ 6,000 |
| Clerk Salary | | \$ | 3,000 | \$ | | \$ 3,000 | \$ | 2,250 | \$ | 750 | \$ 3,000 |
| Treasurer Salary | | \$ | 3,800 | \$ | 3,800 | \$ 3,800 | \$ | 2,850 | \$ | 950 | \$ 4,800 |
| General Reserve Account | | \$ | 3,000 | \$ | 3,000 | \$ 3,000 | | | \$ | 3,000 | \$ 3,000 |
| Entrance & Beach Maintenance | | \$ | 2,000 | \$ | 2,000 | \$ 2,000 | \$ | 1,125 | \$ | 875 | \$ 2,000 |
| Mosquito Control | | \$ | 1,800 | \$ | 1,800 | \$ 1,800 | | | \$ | 1,800 | \$ 1,800 |

BUDGET REPORT MULTI YEARS

| Lake Maintenance | | \$ 15,900 | \$ 15,900 | \$ | 48,756 | \$ 12,196 | \$ 36,560 | \$ 55,756 |
|---------------------------|-------------|--------------|--------------|-----|-----------|--------------|--------------|--------------|
| Water Resource/K Wagner | \$20,000.00 | | | | | \$ 6,719 | | \$ 2,000 |
| Beaver Solutions | \$ 2,000.00 | | | | | \$ 3,685 | | \$ 4,000 |
| Water & Wetlands LLC | \$ 5,300.00 | | | | | | | \$ 28,606 |
| Aquatic Resoration Consul | | | | | | | | \$ 8,000 |
| Housatonic Testing | \$ 700.00 | | | | | \$ 1,792 | | \$ 3,150 |
| Divers | \$3,000.00 | | | | | | | \$ 10,000 |
| TOTAL OPERATING | | \$ 98,100 | \$ 98,900 | \$1 | 26,156.00 | \$ 66,205 | \$ 59,951 | \$137,156 |
| | | | | | | | | |
| | | | | | | | | |

SGRD Road Superinendent's Report Annual Meeting June 4, 2022

We had an extremely rainy summer in 2021. We had bad washouts on Robinwood and Silver Leaf which had to be taken care of on an emergency basis. Gary Obrien came in and took care of that for us.

Winter for the most part was very mild. We had some snow and ice that was taken care of in a timely manner. The problem was we kept getting very cold days and very warm days back to back which caused a lot of rutting and potholes. After the spring thaw, Gary Obrien came in and grated the roads to make them a little smoother until our spring grade, rake and roll.

There were a couple of wires down in a couple of places from storms and strong wind. I called Eversource and they came in and did the repairs. I also had to remove a couple of trees that were in the roads.

At the request of several residents seeking mailboxes in SGRD, the postmaster agreed to donate additional clusters of boxes to the Greens. However, we must provide a shed large enough to accommodate all the boxes as well as a new cement padding, and more electricity. I was unable to find a contractor to do the project for a reasonable price while others thought it was too small a job and another was not well enough to do the job. I went to Sheds and Stuff which would build a shed to the specifications to fit our needs. The price of that shed was \$5,000.00. The price of the cement padding was \$3,000.00. Gary's price for the excavation & Honce style with stone is \$2,500.00. The cost for the electrical work is \$450.00. The total for the work for this would be \$10,950.00.

When spring approached, Gary Obrien and I inspected all the roads in the Greens and went over all the work that needs to be done to improve our roads. I have a prioritized list of work we feel needs to get done in the Greens and are as follows

- 1. Trail Circle Install culvert across road \$2,500.00.
- 2. Robin Wood grade, rake and roll with 2 loads of material and 1 full day of ditching \$2,900,00
- 3. Long Bow Lane East grade, rake and roll with 8 loads of material and 2 full days of ditching \$8,100.00.
- 4. Silver Leaf Drive grade, rake and roll with 10 loads of material and 2 full days of ditching \$9,000.00.
- 5. Silver Shield grade, rake and roll with 6 loads of material and 2 full days of ditching on Silver Shield and to include 2 days of ditching on Red Lion Road \$8,700.00.
- 6. Deer Trail grade, rake and roll with 8 loads of material and one full day of ditching \$6.600.00.
- 7. Silver Leaf Extention Remove oil and stone and install 5 loads of dence grade, total of removal and materials \$4,500.00.
- 8. Long Bow Lane South grade, rake and roll with 2 loads of material \$1,900.00.

- 9. Long Bow Lane North grade, rake and roll with 2 loads of material \$1,900.00.
- 10. Upper Old Abbey grade, rake and roll, clean ditches and remove trees that have fallen into the line \$3,250.00.

As you can see, we have quite a few roads that need improvements that we can work on as funds are available.

Respectfully Submitted,

Bob Moore Road District Superintendent

Lakes Report Annual Meeting 2022

Even though none of our lakes were treated last season for either pond weed or invasive Phragmites, we engaged Dr. Ken Wagner of Water Resource Services to keep our monitoring up to date. His report, filed with the Becket Conservation Commission, serves as a template for any monitoring present and future.

This past March we engaged Water and Wetland to perform the actual treatments for nuisance pond weed during the high season on our 3 smaller lakes and invasive Phragmites on all 47 existing patches in our development at end of season. This includes herbicidal treatments for both and some cutting on the latter, as well as their standard reporting at end of season.

We also recently engaged Aquatic Restoration Consulting to perform end of season monitoring based on the work that Dr. Wagner did in August last year. Third party monitoring and reporting is more thorough and therefore preferable when navigating the requirements of Conservation and the DEP. Aquatic Restoration will fold the reporting from Water & Wetland into their own final report to be submitted to Becket Conservation in the fall.

In an effort to keep Long Bow Lake weed managed on par with previous years an estimated \$100 an hour for three persons was proposed. This would include a team of three clearing the "beach front" and major swath down the middle of the lake as done in years past. The amount of work is not to exceed 100 hours.

Dr. Wagner remains our consultant and has a broad overview of the entire program.

In March Becket Conservation approved our application for beach refurbishment on Long Bow Lake. The work was done by Gary O'Brien. At the same time, we were approved for some cutting along the Long Bow Lake access to widen the shoreline as well as laying a few more Benthic mats to check some of the vegetation there.

As usual, Housatonic Basin and Testing will be monitoring the ecoli in all 4 lakes, once a week for the entire season starting just prior to Memorial Day and continuing until Labor Day, and Beaver Solutions will take care of any maintenance issues regarding the deceivers and fencing in the 12 different locations in the Greens.



January 28, 2022

Sherwood Greens Road District c/o Mr. Bruce Lipton 1439 Jacobs Ladder Road Becket, MA 01223

Dear Bruce:

Thank you for allowing us to submit pricing for the requested pond management services at Sherwood Greens. We fully understand the scope of work and have pulled together an appropriate plan that will meet the goals of SGRD.

Enclosed you will find a detailed scope of work, which includes permitting, surveys, Sonar treatments, phragmites treatment (three-year pricing), and reporting. If selected for this project, Colin Gosselin will be the project manager. Colin is a co-owner of Water & Wetland and a Senior Aquatic Biologist. He has been managing lakes and ponds throughout New England for fifteen years. During that time, he has managed hundreds of lakes for the control of nuisance and invasive species. Colin has led many complex Sonar treatment projects and large phragmites projects over the course of his career.

In 2021, Water & Wetland completed several projects which utilized Sonar herbicide for the control of various nuisance and invasive pondweed species. We trust that you will find our approach to be well thought out, and our costs to be favorable. When working with Water & Wetland, you'll be working with a small company and will deal directly with the owners.

Please let us know if you have any questions at all. We are more than happy to work with you to modify the scope accordingly to meet the needs of SGRD.

Sincerely,

Joe Onorato, Co-Owner Water & Wetland, LLC

joe@waterandwetland.com

c: (508) 250-6238 o: (888) 493-8526



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Attachments

- Key Staff Biographies
- Certificate of Insurance



Scope of Services

We have fully reviewed the data provided by Dr. Wagner, as well as the issued Order of Conditions and affiliated special conditions. Below you will find a scope of services that will meet the objective of Sherwood Greens Road District.

Task 1: OOC Compliance

We have closely reviewed the Special Conditions of your Order of Conditions. Special Condition #3 requires the contractor sign the Becket Conservation Commission Letter of Recognition. Water & Wetland will sign this document and submit to Becket Conservation prior to the start of work. Special Condition #26 requires that a work plan be submitted to Becket Conservation Commission each Spring for review and approval. Water & Wetland will prepare this work plan, including detailed information about all management tasks to be performed. Aside from these two notable conditions, Water & Wetland will comply with all other Special Conditions.

Task 2: Permitting

Following Conservation Commission approval of the 2022 work plan, Water & Wetland will prepare and file for the required State Pesticide Use Permit (WM04) with Massachusetts Department of Environmental Protection (MA-DEP). The permit application will include all required forms, maps, and project descriptions. We anticipate filing of the MA-DEP Permits in April.

Task 3: Treatment of Nuisance Native Vegetation (Sonar Treatments)

A pre-treatment survey of the ponds will be performed in early-May from a 12′ jon boat and will include visual observation as well as a standard throw-rake, as necessary. Hand-held GPS will be used to document the coordinates and distribution of nuisance and invasive species in the waterbody. Following the pre-treatment survey, a general assemblage map will be prepared noting the presence/densities of dominant native and invasive species. As noted in the treatment plan below, the initial fluridone treatment is planned at early onset growth of the target native species (early-mid May). Given this timing, the pre-treatment survey is planned for very early season, prior to many plants actively growing and certainly before most aquatic plants reach densities beyond sparse. The pre-treatment survey will be especially valuable in documenting active plant growth of target species such as bladderwort and big leaf pondweed. Once this occurs, treatment will be initiated.

An initial treatment of fluridone and two booster treatments are planned for the selected ponds. Each time the Water & Wetland Biologist(s) visit the ponds, interim monitoring will be performed. These interim monitoring tasks include visual monitoring of treatment effects on in-pond vegetation, collection of FasTEST herbicide residue tests, as necessary to guide subsequent "bump" dosing and to guide irrigation restrictions. Bump applications are designed to boost Sonar concentrations to maintain the desired concentration for the needed contact exposure time. Water & Wetland's standard practice includes collection of basic water quality info such as: temperature, dissolved oxygen and secchi disc (water clarity) each time we visit a waterbody. Sonar (fluridone) will be applied in May as immature plants are typically most susceptible to low concentrations of fluridone. Weather conditions will be closely monitored prior to the date of treatment(s). Sonar is an aquatic herbicide that was initially registered with the Environmental Protection Agency (EPA) in 1986 and has been used throughout Massachusetts and



the United States for decades. The herbicide inhibits the photosynthesis process by stopping plants from making a protective pigment that keeps chlorophyll from breaking down in the sunlight. Fluridone moves quickly throughout a waterbody and is therefore usually applied as a whole lake/basin treatment, as is the case with the Sherwood Greens Ponds. Water & Wetland will apply the most appropriate Sonar formulations to the treatment areas using an a 12' jon boat with a sub-surface calibrated pumping system for liquid applications and a calibrated spreader for granular applications. Our specialized equipment allows



for on-board mixing of liquid product, which is then injected into the water column. This methodology helps get the herbicide down to the plants where they are most susceptible to concentrations of herbicide.

The goal of the Sonar treatment program is to maintain a fluridone concentration of approximately 10+ parts per billion for a period of 60 days. We have considered all the flow information provided in Dr. Wagner's August 2020 Report. Additionally, we have considered the provided bathymetry data. Below is our recommended dosing, while the actual product quantity varies per pond based on volumetric calculations, the concentrations are the same for each pond.

- Application #1 (early/mid-May) 8ppb Sonar Genesis (liquid), 30ppb Sonar One (granular)
- Application #2 (late May/early-June) 8ppb Sonar Genesis (liquid)
- Application #3 (mid-late June) 4ppb Sonar Genesis (liquid)

Sonar Genesis is the liquid formulation of the product and allows for a quicker release of active ingredient which builds the fluridone concentration much quicker than Sonar ONE. Sonar ONE is the time-released granular formulation and allows for applications directly on the target weed beds. By emitting the active ingredient, fluridone, much more slowly, Sonar ONE leads to a slower build in concentration and assists with maintaining the desired concentration. While weather will of course be monitored, Sonar ONE helps combat rain events during the treatment program.

Following the initial application of Sonar, two follow-up "bump" applications will be scheduled to boost the fluridone concentration in the water. This will allow us to maintain the 10+ppb concentration for approximately 60 days. The bump applications will tentatively be spaced 21 days apart following the initial Sonar treatment as prescribed by SePro. As necessary following the initial treatment and booster treatments, samples will be collected and sent to SePro Lab in North Carolina for analysis of fluridone concentrations. FasTEST analytical technology provides rapid and accurate analysis of aquatic herbicide and algaecide concentrations in water and assists with guiding dosing. Our plan calls for a minimum of three rounds of FasTEST sampling, with one sample per round (per pond treated). We typically collect these immediately prior to bump applications. To provide the most accurate FasTEST data immediately prior to booster applications, an alternative plan would call for an SGRD member collecting the samples approximately one-week prior to each planned booster application, and then shipping to SePro Labs. Water & Wetland would supply all bottles, chains of custody, and shipping information to SGRD during



the initial treatment. We would also provide instructions on collection and shipping. All FasTEST data would be sent to Water & Wetland.

Brightly colored, neon posters will be posted around the shoreline prior to any treatments. The neon posters will fulfill permit requirements and will note, at a minimum, the lake name, treatment date, Water & Wetland contact info, and any affiliated water use restrictions.

According to the product labels (included) for Sonar Genesis and Sonar One, there are no restrictions on recreation such as swimming or fishing. Additionally, the label notes that there are no restrictions on drinking or livestock/pet consumption. Despite this, we recommend closing the waterbody down during application(s). This may include a portion of the day of application(s) or closure until the following day. While there are no label restrictions for the activities noted above, the product labels note an irrigation restriction until concentrations fall below 5ppb. This restriction applies only to the use of lake water for irrigation purposes. The restriction will be posted accordingly and will be lifted once fasTEST samples show concentrations below the 5ppb threshold.

Task 4: Post-Treatment Survey

Following all treatments in late-July/August, Water & Wetland will perform a final treatment survey. We have provided a line-item cost for this task, as we do see value in contracting Dr. Ken Wagner for this specific survey. This survey must be completed, but Water & Wetland is certainly fine with working with Dr. Wagner, as necessary. If Water & Wetland is selected for the post-treatment survey, we recommend following Dr. Wagner's recommendations from December 13, 2020. The survey would include surveying each of the historical survey points, in accordance with the 2020 survey procedures. At each point, vegetation would be assessed for presence and density. Water & Wetland uses an external GPS paired with ArcGIS Field Maps, which allows us to easily navigate to



GPS points and collect/track information accordingly. We would need the GPS locations of the 2020 points to be provided. Additionally, Dr. Wagner recommends collection of water quality and plankton samples as conducted in 2020, to gain understanding of those features of the lakes. Sampling would be during summer and would include total phosphorus, nitrate nitrogen, total Kjeldahl nitrogen, temperature, oxygen, pH, conductivity, turbidity, and chlorophyll-a at one station per lake. Phytoplankton and zooplankton would also be sampled at those stations and water clarity would be assessed with a Secchi disk.

This can be replicated pre-treatment as well, but we feel as if a standard pre-treatment survey will be more than sufficient. Note: As stated above, we recommend Dr. Wagner conduct the July/August survey, we can then conduct a standard post-treatment monitoring event when managing the phragmites growth.

Task 5: Phragmites Treatment

Water & Wetland will initiate management of phragmites in September. Research and our historical experience have shown that cutting of phragmites alone, and even mechanical removal will not control



phragmites, given their extensive rhizome structure. Treatment, using EPA/MA approved AquaPro (glyphosate), or equivalent such as Rodeo will be applied to the 47 document phragmites patches. Glyphosate has shown excellent efficacy on phragmites growth throughout Massachusetts for many years. While herbicide choice is especially important, other factors to success are timing and application methodology. The herbicide mixture (paired with a methylated seed oil surfactant – MSO) will be applied through foliar application directly to the phragmites plants. The MSO, a surfactant, acts as a sticking agent and increases plant uptake and herbicide efficacy. Given the density of the phragmites, low-volume backpack sprayers will be used during the initial year of treatment (2022). In areas where phragmites have just started to encroach on native plants, hand-wiping of individual stems will be incorporated, as applicable, and will be utilized more in subsequent years of phragmites treatment. This approach paired with standard application procedures/label requirements such as treatment in non-windy conditions and when precipitation is not forecasted will limit non-target impacts. A late season treatment window of September allows for the systemic herbicide to translocate into the rhizomes, providing drastic reduction in subsequent growing years. Glyphosate, unlike some other herbicide options such as imazapyr has no soil activity and therefore only plants that encounter the herbicide will be subject to mortality. While eradication is virtually impossible, reduction is anticipated annually through annual treatments for several years. As density decreases, selective methods such as hand-wiping of plants will increase, as applicable.

Given the slow-acting nature of the glyphosate-based herbicide, impacts to both phragmites and any non-target vegetation will be fully realized and surveyed in the following growing season and control will largely be measured with photo-documentation.

Following treatment in the initial year, SGRD may elect to cut some of the dead phragmites stalks. Once the herbicide has translocated into the rhizomes of the phragmites, likely November/December, cutting/mulching of the dead phragmites can be performed at an additional cost. Mulching of the dead phragmites stalks will not only open-up sunlight for the native plants to regrow but also warms the soil so that the native seed bed has a better chance to recolonize in areas that were once 100% dominated by dense, invasive phragmites growth. Given the small-scattered patches, we would perform this work using hand using gas-powered cutters. The phragmites may be accessed on foot or by boat, as appropriate. All cut material will be gently mulched and left in place to decompose. This work is extremely labor intensive, so we have provided a day rate for a crew of two with hand-cutters. Once we have treated the phragmites, we can make recommendations for priority cutting areas.

Task 6: Year End Reporting

Prior to December 15, 2022, a year-end report will be submitted to SGRD for review. Following edits/comments from SGRD (if applicable), the report will be sent to Becket Conservation Commission, as required in the OOC. The year-end report will include pre- and post-treatment vegetation maps, observations, photos, descriptions/dates of work performed, FasTEST residue sampling data, any additional relevant information on in-lake conditions/non-target impacts, as well as recommendations for the 2023 season. If Water Resource Services is hired for the more extensive 2022 survey, information provided by Water Resource Services will be included in the year-end report. This information will include water quality results as well as detailed plant density information. We realize the Order of Conditions requires maintaining a minimum of 25% aquatic vegetation cover within the Ponds. We are confident that this minimum percentage of aquatic vegetation cover will be maintained under our proposed scope



of work. The year-end report will provide evidence that this condition has been met/exceeded during the 2022 season.

Best Management Practices / Company Protocols

Several company protocols have been implemented to ensure best management practices are followed at all times. A list of several items is provided below:

- Prior to Water & Wetland launching any boat on the Ponds, the vessel will be properly cleaned
 and inspected for the presence of invasive species. It is our company protocol to power wash and
 inspect our boats in between waterbodies. No boat will be launched until it has been properly
 cleaned and inspected as to not introduce invasive species into additional waterbodies.
- No equipment will be stored on-site. All equipment and product needed will be brought to the Sherwood Greens Ponds during the day of the management activity and will be removed from the site the same day.
- In the event the airboat needs refueling or oil during treatment, the boat will be demobilized and filled outside the wetland resource area.
- Product labels/Order of Conditions/State Pesticide Use Permit will be followed at all times.
- Colin Gosselin is the Project Manager and will be on-site during all management activities. Colin is properly licensed to undertake aquatic herbicide applications in Massachusetts.

Water & Wetland Company Info

Water & Wetland is a family owned, local company with nearly two decades of individual experience in pond, lake, and wetland management. Prior to founding Water & Wetland, Colin Gosselin and Joe Onorato worked in lake management and saw an opportunity to change the industry. Our goal is to provide unique, individual attention to each water body we work on. Plans are completely customized, and we pride ourselves on excellent communication with our customers. We want you to know we care about your water bodies as much as you do. While wetlands are complex and precious, they are also highly regulated in New England. We aim to find the perfect balance between restoring a healthy ecosystem and achieving our customers' goals, all while



working within their desired budget. The photo above shows conditions prior to a whole lake Sonar application (July 2020), and conditions during/after the Sonar treatment program (July 2021).

Water & Wetland offers a variety of services that stem from the initial consultation through the implementation of management. Some of these services include pond and lake vegetation surveys, water quality collection and analysis, fountain and aeration installation and service, herbicide and algaecide treatments, biological options, and much more.



Project Managers

Colin Gosselin is the project manager for the Sherwood Greens Project, including all tasks: regulatory compliance, permitting, surveys, treatments, and reporting. Colin is co-owner of Water & Wetland and is also a Senior Aquatic Biologist and Director of Operations. He is a graduate of Plymouth State University in New Hampshire with a degree in Environmental Planning and has worked in the lake management industry since 2006. During his 15 years in the industry, he has gained vast experience in project design and implementation including a variety of programs including: chemical, mechanical, and manual. For more than a decade, Colin has managed hundreds of waterbodies and excels at controlling invasive species, both in water and in wetland. Colin is a licensed supervisory applicator in MA, CT, and RI. Wetland and upland projects have always been Colin's expertise having managed thousands of acres of phragmites and identifying and managing species such as glossy buckthorn, multiflora rose, Japanese barberry, Asiatic bittersweet, and much more. From water quality to invasive species control, Colin has in-depth experience. Colin is affiliated with NALMS (North American Lake Management Society), NEAB (New England Association of Environmental Biologists), NEAPMS (Northeast Aquatic Plant Management Society). As an owner of Water & Wetland, Colin's main role is to project manage including completion of field work. While additional experienced/licensed staff is also being brought on in the Spring, Colin will be on-site for each and every survey and treatment and will lead the year-end reporting and permitting process.

Joe Onorato is the secondary point of contact for the Sherwood Greens Project. Joe is a graduate of Roger Williams University in Rhode Island. Prior to co-founding Water & Wetland he worked for a leading lake management firm, where he managed projects from the design phase through the implementation of management. He specializes in educating clients on best practices and has been featured as a guest speaker for New England Turfgrass Association, CAI CT as well as other associations, discussing pond management best practices. Joe's main role within Water & Wetland is implementing new projects and insuring client satisfaction.

More detailed biographies/resumes as well as license information is provided within the attachments to this bid. Direct contact information for both owners of Water & Wetland is provided below.

| Contact | Name | Cell Phone | Email |
|----------------------------------|----------------|----------------|---------------------------|
| 1 st Point of Contact | Colin Gosselin | (508) 259-3153 | colin@waterandwetland.com |
| 2 nd Point of Contact | Joe Onorato | (508) 250-6238 | joe@waterandwetland.com |



Pricing

We hope that you found the project narrative above to be clear and concise. We have broken pricing out by task and pond. We pride ourselves on being flexible as an organization and are more than happy to refine this scope and pricing to fit the needs of Sherwood Greens Road District.

| Long Bow Lake Permitting/Treatment | | | | | |
|--|----------|--|--|--|--|
| Task | Cost | | | | |
| DEP-Permitting and Initial Sonar Treatment | \$8,690 | | | | |
| Sonar "Bump" Treatment | \$2,325 | | | | |
| 2 nd Sonar "Bump" Treatment | \$1,675 | | | | |
| Total | \$12,690 | | | | |

| Little Long Bow Lake Permitting/Treatment | | | | | |
|--|---------|--|--|--|--|
| Task | Cost | | | | |
| DEP-Permitting and Initial Sonar Treatment | \$2,900 | | | | |
| Sonar "Bump" Treatment | \$765 | | | | |
| 2 nd Sonar "Bump" Treatment | \$625 | | | | |
| Total | \$4,290 | | | | |

| Silver Shield Lake Permitting/Treatment | | | | | |
|--|---------|--|--|--|--|
| Task | Cost | | | | |
| DEP-Permitting and Initial Sonar Treatment | \$5,300 | | | | |
| Sonar "Bump" Treatment | \$1,445 | | | | |
| 2 nd Sonar "Bump" Treatment | \$975 | | | | |
| Total | \$7,720 | | | | |

| Golden Fawn Lake Permitting/Treatment | | | | | |
|--|---------|--|--|--|--|
| Task | Cost | | | | |
| DEP-Permitting and Initial Sonar Treatment | \$1,890 | | | | |
| Sonar "Bump" Treatment | \$575 | | | | |
| 2 nd Sonar "Bump" Treatment | \$425 | | | | |
| Total | \$2,890 | | | | |

*We understand that SGRD is likely to choose two to three ponds per year. Please keep in mind these ponds have been priced individually. In the event SGRD chooses to treat two ponds during the same season, we will discount the total price of the two ponds by 5%. In the event SGRD chooses to treat three ponds during the same season, we will discount the total price of the three ponds by 7.5%. In the event SGRD chooses to treat all four ponds during the same season, we will discount the total price of the four ponds by 10%.



**The pricing above for Sonar treatments, includes the FasTEST sampling regimen specified in the Scope of Services and assumed collection by Water & Wetland. We are happy to provide an additional \$100 discount per pond if SGRD collects and ships the FasTESTs.

| Survey/Reporting Costs | | | | | |
|------------------------|--|---------|--|--|--|
| Lake | Task | Cost | | | |
| Long Bow | Early Season Survey, per the specifications in the Scope of Services | \$750 | | | |
| Little Long Bow | Early Season Survey, per the specifications in the Scope of Services | \$250 | | | |
| Silver Shield | Early Season Survey, per the specifications in the Scope of Services | \$500 | | | |
| Golden Fawn | Early Season Survey, per the specifications in the Scope of Services | \$250 | | | |
| All Ponds | Summer Survey Option #1: Water & Wetland will perform per the "post-treatment survey" specifications above, including water quality. | \$5,185 | | | |
| All Ponds | Summer Survey Option #2: Dr. Ken Wagner performs the Summer survey and provided info to Water & Wetland to include in YER. Water & Wetland will perform a final post-treatment survey (basic) in September when treating phragmites (no cost). | - | | | |
| All Ponds | Reporting Option #1: This option assumes that Water & Wetland leads the year end reporting provided to the Conservation Commission and incorporates information from Dr. Wagner from his Summer survey. Water & Wetland will also include information specific to the more basic pre- and post-treatment surveys, as well as info pertaining to the treatment(s), fasTEST sampling info, and recommendations for 2022. | \$850 | | | |
| All Ponds | Reporting Option #2: This option assumes Water & Wetland performs all surveys including the more extensive Summer survey with sampling. All reporting will be handled by Water & Wetland and will include everything above but will include more detailed information provided by Water & Wetland specifically pertaining to the Summer survey and sampling. | \$1,950 | | | |



| Phragmites Management | | | | | |
|-----------------------|--|-------------|--|--|--|
| Year | Task | Cost | | | |
| 2022 | Treatment of all 47 patches of phragmites around the property per the specifications provided in the Scope of Services. Information on the treatment will be included in the YER. | \$4,350 | | | |
| 2023 | Re-Treatment of all 47 patches of phragmites around the property. Information will be included in the YER, including photos of the stands showing decreased densities. | \$3,045 | | | |
| 2024 | Re-Treatment of all 47 patches of phragmites around the property. Information will be included in the YER, including photos of the stands showing decreased densities. | \$2,175 | | | |
| 2022 | Optional Cutting: As requested, we have provided a day rate to the right. The day rate includes a two-man crew with gas powered hand-cutters. If SGRD wants to cut all treated phragmites, we recommend budgeting for three full days. We are also willing to recommend priority cutting areas to work within SGRD budgets. We do not anticipate that densities will warrant cutting in 2023 or 2024, however if SGRD elects to cut in 2023 or 2024, the same day rate will apply. | \$2,550/Day | | | |

| Optional/Additional Tasks | | | | | |
|--|---|--|--|--|--|
| Task | Cost | | | | |
| Meetings/hearings with SGRD and/or Becket Conservation Commission. | \$400/each (assumes | | | | |
| (Please note: A planned meeting with Becket Conservation Commission to present the 2022 work plan is included in the costs). | meeting is during a weekday) | | | | |
| Additional FasTESTs – Our plan calls for three rounds of FasTESTs, with one FasTEST per pond, per round. FasTESTs will either be collected by Water & Wetland or SGRD (for \$100 discount per pond). If additional FasTESTs beyond this are required/requested, the following costs will | \$500 per special trip + \$200 per FasTEST. If collected by SGRD, the cost is \$175 per FasTEST. (SGRD responsible | | | | |
| apply. | for collection and shipping) | | | | |



PERSONAL PROFILE

Colin has been working in the aquatic / invasive species field since 2006. He is a licensed aquatics applicator in MA, RI, and CT. As Director of Operations for Water & Wetland, Colin oversees and is on site for all projects.

SCIENTIFIC FOCUS

- Invasive Species ID
- Invasive Species Management Plans
- Water Quality Programs
- GIS/GPS Mapping
- Invasive Species Control
- Phragmites Management
- Fountains & Aeration Installation, Service and Design

CONTACT INFORMATION

Mobile: (508) 259-3153 Office: (888) 493-8526

Email: Colin@waterandwetland.com

Office Address: 115 South St. Upton, MA 01568

www.waterandwetland.com



COLIN GOSSELIN

DIRECTOR OF OPERATIONS/ AQUATIC BIOLOGIST

CAREER SUMMARY

Director of Operations / Aquatic BiologistWATER & WETLAND, LLC | JUNE 2020 - PRESENT

- Oversees and project manages all projects, including: aquatic & upland surveys, invasive species control treatments, water quality programs, permitting and more
- Maintains equipment such as: airboats, other treatment boats, pumping systems, backpack sprayers, UTV's
- Project design / alternatives analysis
- Effectively communicates project progress / development with customers, regulatory agencies, etc.

Project Manager / Aquatic Biologist

SOLITUDE LAKE MANAGEMENT | 2006 - JUNE 2020

- Biological surveys and aquatic vegetation mapping
- Reporting and Invasive Species Management Plans
- Water quality monitoring
- Invasive species treatments and other management
- Directing crew and project coordination
- GPS/GIS mapping
- Maintenance of equipment
- Permitting and regulatory compliance
- Communication of project progress with customers and regulatory agencies

ACADEMIC HISTORY

Plymouth State University - Plymouth, NH B.S. IN ENVIRONMENTAL PLANNING, 2009

- Completed in May 2009
- Focus on sustainability in the environment, GIS mapping
- Senior year internship with Town Engineer, Danvers, MA with focus on sewer mapping, oversight of stormwater projects, culverts, etc.

PROFESSIONAL AFFILIATIONS

- NALMS North American Lake Management Society
- NEAB New England Association of Environmental Biologist
- NEAPMS Northeast Aquatic Plant Management Society
- APMS Aquatic Plant Management Society



PERSONAL PROFILE

As Director of Business Development for Water & Wetland, Joe specializes in working directly with customers on their specific project goals. He is involved with all of Water & Wetland's projects from start to finish.

FOCUS

- Understanding Customer Goals
- Project Design / Alternatives Analysis
- Ensuring Proper Communication
- Coordination of Project with Operations
- Fountains & Aeration Systems
- Phragmites Management
- Ensuring Regulatory Compliance

CONTACT INFORMATION

Mobile: (508) 250-6238 Office: (888) 493-8526

Email: Joe@waterandwetland.com
Office Address: 115 South St.

Upton, MA 01568

www.waterandwetland.com



JOE ONORATO

DIRECTOR OF BUSINESS DEVELOPMENT / AQUATIC SPECIALIST

CAREER SUMMARY

Director of Bus. Dev. / Aquatic Specialist WATER & WETLAND, LLC | JUNE 2020 - PRESENT

- Focuses on client management and project design
- Coordinates project implementation and scheduling with Director of Operations
- Presents management options / alternatives analysis to Customers including: municipalities, homeowners associations, lake associations, golf course superintendents, property owners, land trusts, etc.
- Works with herbicide / algaecide manufacturers to properly dose projects
- Works with fountain and aeration manufacturers to properly size aeration systems and fountains for specific waterbodies

Bus. Dev. Consultant / Aquatic Specialist SOLITUDE LAKE MANAGEMENT | MAY 2016 - JUNE 2020

- Project design and pricing
- Offering best solution for full suite of lake management offerings, including: mechanical, manual and chemical options
- Design of water quality monitoring programs
- Conflict resolution
- Project coordination with Operations
- Growth of revenue YOY, including specific categories such as fountains & aeration, erosion control

ACADEMIC HISTORY

Roger Williams University - Bristol, RI

B.S. IN LEGAL STUDIES, 2004

- Completed in May 2004
- Magna Cum Laude 3.68 GPA
- Focus on Legal Studies and Spanish with an additional concentration on Life Sciences

PROFESSIONAL SPEAKING ENGAGEMENTS

- "Pond Management Strategies for Homeowners Associations," Condo Associations Institute 2018
- "Mosquito Management in Ponds," Condo Associations Institute Connecticut 2018
- "Pond Management for the Golf Course Industry," New England Turfgrass Association 2019



PERSONAL PROFILE

As a Senior Environmental **Engineer/Project Manager for Water &** Wetland, James specializes in completing projects from design through implementation. This includes everything from developing management plans, through permitting, to treatments, surveys, water quality, fountains / aeration, and reporting.

FOCUS

- Invasive Species ID
- Invasive Species Management Plans
- Water Quality Programs
- GIS/GPS Mapping
- Invasive Species Control
- Phragmites Management
- Fountains & Aeration Installation, **Service and Design**

CONTACT INFORMATION

Mobile: (774) 276-6098 Office: (888) 493-8526

Email: James@waterandwetland.com

Office Address: 115 South St. **Upton, MA 01568**

www.waterandwetland.com



JAMES LACASSE

SENIOR ENVIRONMENTAL SCIENSTIST/ PROJECT MANAGER

CAREER SUMMARY

Senior Environmental Scientist

WATER & WETLAND, LLC | MAY 2021 - PRESENT

- Oversees and manages projects, including: aquatic & upland surveys, invasive species control treatments, water quality programs, permitting and more
- Maintains equipment such as: airboats, other treatment boats, pumping systems, backpack sprayers, UTV's
- Project design / alternatives analysis
- Effectively communicates project progress / development with customers, regulatory agencies, etc.
- Prepares and files both Town and State permits
- Installs, maintains, and troubleshoots aeration systems and fountains

Environmental Scientist

SOLITUDE LAKE MANAGEMENT | MAY 2016 - JUNE 2020

- Biological surveys and aquatic vegetation mapping
- Reporting and Invasive Species Management Plans
- Water quality monitoring
- Invasive species treatments and other management
- Directing crew and project coordination
- GPS/GIS mapping
- Permitting and regulatory compliance
- Communication of project progress with customers and regulatory agencies

Field Chemist/Environmental Spec. II TRIUMVIRATE ENVIRONMENTAL | 2015-2016

- Maintain Research Compliance, Chemical Inventory, Laboratory and Chemical Moves
- Site Remediation and Consulting
- Transportation of Hazardous Material, Emergency Response Planning
- Team Management and Task Management
- Licensing and Permitting: Air Emissions, Wastewater, Storm Water, Biosafety, Flammable Storage

Biologist Assistant/Field Associate

AQUATIC CONTROL TECHNOLOGY, INC. | 2012-2014

 Worked as a Summer intern, assisting with the management of waterbodies throughout New England.

ACADEMIC HISTORY

University of Rhode Island - Kingston, RI B.S. IN ENVIRONMENTAL SCIENCE, 2015

- Lake, Pond & Wetland Management -

WATE&WE-01

SCOOTS

ACORD*

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 6/30/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER. AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| <u> </u> | | | | | | | |
|--|---|-----------|--|--|--|--|--|
| PRODUCER | CONTACT Stephanie Coots | | | | | | |
| Gordon Atlantic Insurance 306 Washington Street | PHONE (A/C, No, Ext): (781) 659-2262 204 FAX (A/C, No): (78 | | | | | | |
| Norwell, MA 02061 | E-MAIL ADDRESS: stephanie@gordonatlanticinsurance.com | | | | | | |
| | INSURER(S) AFFORDING COVERAGE | NAIC# | | | | | |
| | INSURER A : Colony Insurance Company | | | | | | |
| INSURED | INSURER B : Green Mountain Insurance Company, Inc. | | | | | | |
| Water & Wetland, LLC | INSURER C Hartford Accident & Indemnity Compa | any 22357 | | | | | |
| 115 South Street | INSURER D : | | | | | | |
| Upton, MA 01568 | INSURER E : | | | | | | |
| | INSURER F: | | | | | | |
| | | | | | | | |

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| | EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. | | | | | | | |
|------|--|---------|-------------------------|----------------------------|----------------------------|---|--------------|--|
| INSR | TYPE OF INSURANCE | ADDL SU | JBR VD POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | | |
| Α | X COMMERCIAL GENERAL LIABILITY | | | | , <u>,</u> | | \$ 1,000,000 | |
| | CLAIMS-MADE X OCCUR | | PACEP4258279 | 7/7/2021 | 7/7/2022 | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ 100,000 | |
| | | | | | | MED EXP (Any one person) | \$ 5,000 | |
| | | | | | | PERSONAL & ADV INJURY | \$ 1,000,000 | |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | GENERAL AGGREGATE | \$ 2,000,000 | |
| | POLICY PRO- X LOC | | | | | PRODUCTS - COMP/OP AGG | \$ 2,000,000 | |
| | OTHER: | | | | | | \$ | |
| В | AUTOMOBILE LIABILITY | | 20042602 | 6/17/2021 | 6/17/2022 | COMBINED SINGLE LIMIT (Ea accident) | \$ 1,000,000 | |
| | ANY AUTO | | | | | BODILY INJURY (Per person) | \$ | |
| | OWNED AUTOS ONLY X SCHEDULED AUTOS | | | | | BODILY INJURY (Per accident) | \$ | |
| | X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY | | | | | PROPERTY DAMAGE (Per accident) | \$ | |
| | | | | | | | \$ | |
| Α | UMBRELLA LIAB X OCCUR | | | | | EACH OCCURRENCE | \$ 3,000,000 | |
| | X EXCESS LIAB CLAIMS-MADE | | EXC4258284 | 7/7/2021 | 7/7/2022 | AGGREGATE | \$ 3,000,000 | |
| | DED X RETENTION \$ 0 | | | | | | \$ | |
| С | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | 08WECAG8GG0 | 7/7/2021 | 7/7/2022 | X PER OTH-ER | | |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE Y/N | N/A | | | | E.L. EACH ACCIDENT | \$ 1,000,000 | |
| | (Mandatory in NH) | N/ A | | | | E.L. DISEASE - EA EMPLOYEE | | |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | E.L. DISEASE - POLICY LIMIT | • | |
| Α | Pollution Liability | | PACEP4258279 | 7/7/2021 | 7/7/2022 | Each Condition Limit | 1,000,000 | |
| Α | Professional Liab | | PACEP4258279 | 7/7/2021 | 7/7/2022 | Each Wrongful Act | 1,000,000 | |
| | | | | | | | | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Water and Wetlands Environmental Management and Control

CERTIFICATE HOLDER CANCELLATION

Water & Wetland, LLC Proof of Insurance 115 South St Upton, MA 01568 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Stepher Cook