



## Deal Lake Aquatic Plant Management Program

**Prepared for:**

Deal Lake Commission  
Don Brockel, Chairman  
399 Monmouth Road  
Oakhurst, NJ 07755

**Submitted by:**

SOLitude Lake Management<sup>1</sup>  
310 East Washington Avenue, Suite C  
Washington, NJ 07882  
(P) 908-850-0303  
(F) 908-850-4994  
[www.solitudelakemanagement.com](http://www.solitudelakemanagement.com)

**April 1<sup>st</sup>, 2020**

**A Proposed Scope of Work for Herbicide Treatment and  
Aquatic Plant Monitoring for Terrace Pond and Western Sunset Arm at  
Deal Lake for Deal Lake Commission**

**Project Contact Person:** Bob Schindler  
**Telephone Number:** 908-850-0303  
**Organization/Entity Applying:** SOLitude Lake Management  
**Address:** 310 East Washington Avenue  
Washington, NJ 07882  
**Fax#:** 908-850-4994  
**E-mail:** bschindler@solitudelake.com

**Estimated Start and Completion Dates:**

**Start:** May 1, 2020

**Completion:** October 31st, 2020

**I. Project Geographic Location**

The Project location is Deal Lake located in Oakhurst, Monmouth County, NJ. The treatment area project site is delineated within the lake as shown in the map referenced within the RFP and includes two adjacent areas known as Terrace Pond and Western Sunset Arm, with a combined approximate surface area of seven and eight tenths (7.8) acres.

**II. Permitting**

At least fifteen days prior to treatment an NJDEP Aquatic Pesticide permit will be filed covering the target management areas and each of the herbicides proposed for implementation. The permit application process will also include area wide notification of the proposed treatment program, including a local newspaper publication, which will also be required at least seven days prior to the initial application.

**III. Herbicide Treatment**

SOLitude Lake Management is proposing a submersed aquatic plant management program for the management of Eurasian water milfoil (*M. spicatum*), coontail (*C. demersum*), parrot feather (*M. aquaticum*) and fanwort (*Cabomba sp.*) for the target areas of Deal Lake. The assumed target species represent a management challenge with a limited number of herbicide options that successfully target this plant assemblage. SOLitude Lake Management is presenting two options that can be executed for this management program, with the selection based on

both the evaluation of corresponding irrigation restrictions, and overall management budget.

Management Program Option One, which is the preferred management strategy, will be focused on the initial application of the systemic herbicides ProcettaCOR EC (Florpyrauxifen) and Stingray (Carfentrazone) to the entirety of the 7.8-acre target management area during the 2020 management season. This treatment is anticipated to be performed early in the season (~May 1<sup>st</sup> to May 15<sup>th</sup>) following establishment of target species at a growth height suitable for treatment efficacy. These herbicides both provide systemic control of the target submersed plant species, and multi-season control of the *Myriophyllum* species is expected. The herbicides proposed for use under Management Program Option One will require a fourteen-day irrigation water use restriction. To reduce the restriction timing the management program includes water sampling for SePRO Fastest analysis to monitor herbicides residue levels and reduce the irrigation restriction interval.

Management Program Option One also includes a supplemental treatment using the herbicide Flumioxazin 51%, if needed, to ensure thorough control of target species throughout the management area. This herbicide treatment will be performed approximately forty-five to sixty days after the initial treatment and will only be performed following confirmation that any of the target species are still present within the management area. The application of Flumioxazin will include a one (1) irrigation restriction.

Management Program Option Two would be incorporated if the water use restrictions are too onerous for the adjacent golf course, or the proposed management program under Option One exceeds the budget limitations for the project. Management Program Option Two will include two (2) applications of Flumioxazin 51% to the entirety of the 7.8-acre management area. The initial application is anticipated to be performed in early-Mid May, with a supplemental application performed thirty (30 to forty-five (45) days later. Management Program Option Two with Flumioxazin 51% is a contact herbicide management program, and control of all target submersed aquatic plant species will be limited to the 2020 application season.

Prior to the commencement of the management program, a pre-treatment site meeting and target management area survey will be conducted by SOLitude Lake Management in coordination with the Deal Lake Commission. The meeting will provide a background of the management program including a timeline of events and to ensure all

management objectives will be satisfied through the course of the management program.

The herbicide treatments will be conducted utilizing herbicide application jon boats with specially designed herbicide application pump spray equipment. Each treatment vessel will include an onboard treatment system with enclosed tank and pump system that is calibrated based on the treatment area and dose rate of herbicide. The application vessel is also equipped with either drop hoses to apply the herbicide at a subsurface depth to improve the efficacy of the treatment, or surface boom-less spray nozzles for improved surface coverage, while minimizing drift and preventing herbicide spray above the water surface. SOLitude Lake Management trucks will be equipped with herbicide containment and cleanup equipment, as well as first aid and other suitable safety devices.

#### **IV. Treatment Area Aquatic Vegetation Survey**

To identify the extent of the target submersed aquatic plant infestation and species assemblage within the target treatment areas of Deal Lake as well as any other submersed aquatic plant species, SOLitude Lake Management will conduct pre- and post-treatment aquatic plant surveys. Any other pertinent field notes (such as nearby emergent vegetation, or nearby beds of submersed plants not sampled) regarding the sample location are also recorded on a field log.

The post-treatment sampling will occur in August to September. The final written project summary, which will include all monitoring, surveying and sampling data, as well as a review of the efficacy of the treatment, methodology and recommendations for future treatment program(s) will be presented to the Deal Lake Commission by October 31<sup>st</sup> of the 2020 management season.

#### General:

1. Contractor is a licensed pesticide applicator in the state in which service is to be provided.
2. Individual Applicators are Certified Pesticide Applicators in Aquatics, Public Health, Forestry, Right of Way, and Turf/Ornamental as required in the state in which service is to be provided.
3. Contractor is a SePRO Preferred Applicator and dedicated Steward of Water. Each individual applicator has been trained and educated in the water quality testing and analysis required for site specific water quality management prescriptions and utilizes an

integrated approach that encompasses all aspects of ecologically balanced management. Each applicator has received extensive training in the proper selection, use, and application of all aquatic herbicides, algaecides, adjuvants, and water quality enhancement products necessary to properly treat our clients' lakes and ponds as part of an overall integrated pest management program.

4. Contractor guarantees that all products used for treatment are EPA registered and labeled as appropriate and safe for use in lakes, ponds, and other aquatic sites, and are being applied in a manner consistent with their labeling.
5. All pesticide applications made directly to the water or along the shoreline for the control of algae, aquatic weeds, or other aquatic pests as specified in this contract will meet or exceed all of the contractor's legal regulatory requirements as set forth by the EPA and related state agencies for NPDES and FIFRA. Contractor will perform treatments that are consistent with NPDES compliance standards as applicable in and determined by the specific state in which treatments are made. All staff will be fully trained to perform all applications in compliance with all federal, state, and local law.
6. Contractor will furnish personnel, equipment, boats, materials, and other items required to provide the foregoing at his expense.
7. Contractor will maintain general liability and workman's compensation insurance.
8. Client understands and acknowledges that there are irrigation restrictions associated with many of the products used to treat their ponds. The client is responsible for notifying the contractor in advance of the contract signing and the start of the contract treatment if they utilize any of the water in their ponds for irrigation purposes. The client accepts full responsibility for any issues that may arise from the irrigation of turf, ornamentals, trees, crops, or any other plants as a result of treated water being used by the client for irrigation without the consent or knowledge of the contractor.
9. Although there is rarely direct fish toxicity with the products used for treatment when applied at the labeled rate, any time there is an extreme infestation of algae and aquatic weeds, there is a risk of dissolved oxygen drops as a result of large masses of algae and aquatic weeds dying and decomposing simultaneously. This risk is most severe in times of extremely hot weather and warm water temperatures, as these are the conditions during which dissolved oxygen levels are naturally at their lowest levels. Often ponds will experience natural fish kills under these conditions even if no treatment is performed. Every effort, to include the method and timing of application, the choice of products, and the skill and training of the applicators is made to avoid such problems. This risk

is especially mitigated by the use of systemic herbicides wherever possible, which results in a very slow steady control of the target weed species. However, the client understands and accepts that there is always a slight risk of the occurrence of adverse conditions outside the control of the contractor that will result in the death of some fish and other aquatic life. The client also understands and accepts that similar risks would remain if the algae or submersed invasive vegetation present in the pond goes uncontrolled, as it will over time interfere with the health and wellbeing of the existing fish population. The client agrees to hold the contractor harmless for any issues with fish or other aquatic life which occur as described above or are otherwise outside the direct control of the contractor, unless there is willful negligence on the part of the contractor.

10. Contractor shall be reimbursed by the client for any non-routine expenses, administrative fees, compliance fees, or any other similar expense that are incurred as a result of requirements placed on the contractor by the client that are not covered specifically by the written specifications of this contract.
11. The client agrees to pay penalties and interest in the amount of 2% per month for all past due invoices and related account balances in excess of 30 days past due from the due date as specified by the contract and as stated on the relevant invoice presented to the client.
12. The client covenants and agrees to pay reasonable attorney's fees and all other related costs and expenses of SOLitude Lake Management® for collection of past due invoices and account balances and for any other actions required to remedy a material breach of this contract.

#### **CONTRACT PRICING:**

The contract pricing is inclusive of the following activities to be performed during the 2020 management program. This includes the following list of contract tasks:

- Obtaining NJDEP Aquatic Pesticide Permit as required for the 2020 herbicide management program, and area wide public notification.
- Pre-treatment meeting with the Deal Lake Commission during the spring of each year
- Pre-treatment visual and rake-toss survey during the 2020 management season.
- Herbicide Treatment for the management of specified target submersed aquatic vegetation within 7.8 acres of Deal Lake during

- the 2020 management season, as required through the implementation of either Management Program Option One, or Management Program Option Two.
- Post treatment Aquatic Vegetation Survey (AVS) including yearend written project summary of all treatment and survey data which will be presented to the Deal Lake Commission by October 31<sup>st</sup>, 2020.

The total 2020 Terrace Pond and Western Sunset Arm Management Program cost for Deal Lake Commission is as follows under each management option:

		Initial Selection
Management Program Option One:	\$ 11,240.00	_____
Management Program Option Two:	\$ 4,335.00	_____

**During the 2020 contract year 25% of the contract amount will be invoiced following complete execution of the management contract, 50% invoiced following the initial herbicide application and the final payment will be invoiced on November 1<sup>st</sup> following submission of the written program summary. NJ Sales Tax will not be added according to the bid language for Deal Lake Commission.**

APPROVED: \_\_\_\_\_

SOLitude Lake Management®

\_\_\_\_\_  
(Authorized Client Signature)

**Deal Lake Commission**

\_\_\_\_\_  
(Print Name and Title)

\_\_\_\_\_  
(Date)

**ATTACHMENT A: Supporting Documentation**

**Key Staff: Professional Profiles**

**Project References**

**Proof of NJDEP Certification in Category V – Aquatic Management**

**RFP Associated Corporate Documentation**



**NOTICE:**

**THE DEAL LAKE COMMISSION IS SEEKING BIDS FROM QUALIFIED CONTRACTORS FOR THE APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE FOR THE PURPOSE OF CONTROLLING THE GROWTH OF NUISANCE AQUATIC MACROPHYTES (WEEDS).**

**AVAILABILITY OF BID SPECIFICATIONS AND ASSOCIATED FORM**

Specifications, instructions to bidders, and bid proposal forms may be obtained digitally from the Deal Lake Commission's website (<http://deallake.org/>) or physically during the regular business hours of 8:00 am to 4:00 pm at the Deal Lake Commission's office, located in the Ocean Township Municipal Building, 399 Monmouth Rd, Oakhurst, NJ 07755. All bids must be submitted on the bid proposal forms contained herein in order to be considered.

Submitted bids will be read at the publicly scheduled March 19, 2020 monthly meeting of the Deal Lake Commission held at the Borough of Interlaken, Municipal Building, 100 Grassmere Avenue, Interlaken, NJ on March 19, 2020, commencing at 7:00 PM

Approved:



Attest:



Bid Completeness Checklist

Included in this Bid Request, as required by the bid specifications, is a

- 1) Bid
- 2) Corporate Disclosure Statement
- 3) Corporate Resolution (if a Corporation)
- 4) Non-Collusion Affidavit
- 5) Affirmative Action Statement
- 6) Proof of NJDEP Pesticide Applicator Category V Certification
- 7) List of References
- 8) Description of Proposed Personnel and Management
- 9) Description of Capabilities and Experiences
- 10) Exceptions, Discrepancies or Omissions to the Specification
- 11) Schedule A – Details of Proposed Herbicide(s) and Cost of Treatment
- 12) Schedule B – Names and License Number of Certified Applicators

**APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

**THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID**

**DISCREPANCIES OR OMISSIONS TO  
EXCEPTIONS SPECIFICATIONS**

Is this bid in conformance with specifications? Yes X No       

IF ANSWER IS NO, BIDDER MUST IDENTIFY AND EXPLAIN EACH EXCEPTION TAKEN AND REFERENCE MADE TO EACH PAGE AND PARAGRAPH TO WHICH THE EXCEPTION WILL APPLY.

---

---

---

It shall be understood that if no exception is taken, the vendor shall supply all material as specified.

Robert Schuller

Project Manager  
Title of Person Signing

**APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

**THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID REQUEST**

CHECK THE APPROPRIATE BOX:

- Fifty (50) or more employees in the entire firm or corporation
- Less than fifty (50) employees in the entire firm or corporation
- Less than four (4) employees in the entire firm or corporation

1) FOR FIRMS OF FIFTY (50) OR MORE EMPLOYEES: An employee information report (Form AA302) must be completed and returned to the Deal Lake Commission within seven (7) days after receipt of notification of intent to award contract or receipt of contract. An affirmative action plan approved by the Federal Government of the NJ Affirmative Action Office is an acceptable alternate. In the space provided below indicate whether your firm has met any of the requirements listed above. Indicate the number of the NJ Affirmative Action Certificate in the space provided.

INDICATE IN THE APPLICABLE BOXES BELOW WHETHER YOU HAVE MET ANY CRITERIA FOR COMPLIANCE WITH THE NEW JERSEY AFFIRMATIVE ACTION REGULATIONS

FIRMS OF FIFTY (50) OR MORE EMPLOYEES

\_\_\_\_\_A Federal Certificate of Approval has been received (Proof of this will be required at time of award).

\_\_\_\_\_A NJ Affirmative Action Certificate of Approval has been received, the number of \_\_\_\_\_.

2) FOR FIRMS OF LESS THAN FIFTY (50) EMPLOYEES: Vendors of less than fifty (50) employees are required to complete an Affidavit of Affirmative Action. If during the term of the contract the firm's work force increases to fifty (50) or more employees, the Deal Lake Commission shall be notified. At that time an employee information report (Form AA302) must be completed and returned to the Deal Lake Commission.

I certify that the above information is correct to the best of my knowledge.

Firm Name Solitude Lake Management LLC

Signature  \_\_\_\_\_ Trina L. Duncan

Title Business Manager

Date 03/16/2020

**APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

**THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID REQUEST**

**CORPORATE RESOLUTION**

Be it resolved, that the following named officers:

Name \_\_\_\_\_ Title \_\_\_\_\_

John Myers, President \_\_\_\_\_

Bruce Gelting, Secretary \_\_\_\_\_

\_\_\_\_\_

be and hereby authorized and empowered to sign and submit to the Deal Lake Commission the attached bid and further that said officers are authorized to execute the contract or any other agreement or bond or statement necessary for the fulfillment of obligations incurred by the acceptance of the bid Deal Lake Commission.

**CERTIFICATION:**

I hereby certify that the above constitutes a true copy of a Corporate Resolution passed and approved by the Board of Directors at a meeting held on 3/16/20.

  
Secretary

(CORPORATE SEAL)

**APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

**THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID REQUEST  
IF THE BIDDER IS A CORPORATION  
CORPORATE DISCLOSURE STATEMENT**

Chapter 33 of the Public Laws of 1977 N.J.S.A. 52:25-24.2) provides in pertinent part that no partnership or corporation shall be awarded any State, County, Municipal or School District contract for the performance of any work or the furnishing of any materials or supplies unless prior to the receipt of the bid or accompanying the bid of said partnership or corporation, there is submitted a statement containing the following information:

1. If the bidder is a partnership, then the statement shall set forth the names and addresses of all partners who own a 10% or greater interest in the partnership.
2. If the bidder is a corporation, then the statement shall set forth the names and addresses of all stockholders in the corporation who own 10% or more of its stock of any class.
3. If a corporation owns all or part of the stock of the corporation or partnership submitting the bid, then the statement shall include a list of the stockholders who own 10% or more of the stock of any class of that corporation.

**BIDDER MUST COMPLETE ONE OF THE FOLLOWING STATEMENTS:**

- I. Stockholders or partners owning 10% or more of the company submitting bid:

Name \_\_\_\_\_ Address \_\_\_\_\_

None \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature

- II. No stockholder or partner owns 10% or more of the company submitting bid:



Trina L. Duncan, Business Manager 03/16/2020 \_\_\_\_\_  
Signature

- III. Bid is being submitted by an individual who operates as a sole proprietorship:

\_\_\_\_\_  
Signature

CERTIFICATION: I hereby certify that the foregoing information is correct and that I will notify the DEAL LAKE COMMISSION within ten days of any changes.



Trina L. Duncan, Business Manager 03/16/2020 \_\_\_\_\_  
Signature

APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE

THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID REQUEST  
THIS FORM MUST BE NOTARIZED

NON-COLLUSION AFFIDAVIT

~~STATE OF~~ COMMONWEALTH OF MASSACHUSETTS

COUNTY OF WORCESTER

I, Keith Gazaille of (Enter Company Name) SOLitude Lake Management, LLC  
located in (Enter Name of City and State) Shrewsbury, MA is duly sworn according to law on my oath  
depose and say that:

I am Director of Lake Management of SOLitude Lake Management, LLC, the bidder making  
the bid for the above named project, and that I executed the said bid with full authority so to do: that said  
bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or  
otherwise taken any action in restraint of free competitive bidding in connection with the above named  
project; and that all statements contained in said bid and in this affidavit are true and correct, and made  
with full knowledge that the Deal Lake Commission relies upon the truth of the statements contained in  
said bid and in the statements contained in this affidavit in awarding the contract for the said project or  
item.


I further warrant that no person or selling agency has been employed or retained to solicit or secure such  
contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee,  
except bona fide employees or bona fide established commercial or selling agencies maintained by  
SOLitude Lake Management, LLC (N.J.S.A. 52:34-15).

Name of Contractor  
SOLitude Lake Management, LLC

Subscribed and Sworn to  
before me this 16th day

  
Type or print name of affiant Keith Gazaille

of MARCH, 2020

  
(Notary Public Seal)



**NANCY A. MCGANN**  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires  
December 18, 2020

**BID REQUEST SHEET FOR 2020  
APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

The undersigned hereby declares that he or she has carefully examined the advertisement for which bids were advertised to be received on: March 19, 2020 at 1:00 PM prevailing time, and having examined the requirements for bidder and specifications prepared by the Deal Lake Commission, will contract to furnish and deliver all the items identified in this bid request as so specified in .

**See the attached SCHEDULE A –**

**this form must be completed and submitted with the Bid Request**

**THE DEAL LAKE COMMISSION RESERVES  
THE RIGHT NOT TO MAKE AN AWARD FOR AN INDIVIDUAL AREA.**

*Rolaf Schindler*

*Project Manager*

Title of Person Signing

**SCHEDULE A  
APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

Targeted Treatment Area of Lake	Estimated Acreage of Treatment Area	Trade Name of Proposed Herbicide(s)	Chemical Name of Proposed Herbicide(s)	Total Fee
Terrace Pond	6.25 acres	Procella COREC Sting Ray Flumioxazin 51%	Florpyrauxifen Carfentrazone flumioxazin	Option 1: \$8992.00 Option 2: \$3,468.00
Western Sunset Arm	1.6 acres	Procella COR EC Stingray Flumioxazin 51%	Florpyrauxifen Carfentrazone Flumioxazin	Option 1: \$2,248.00 Option 2: \$862.00



**SCHEDULE B**  
**APPLICATION OF HERBICIDE(S) IN TERRACE POND AND THE WESTERN SUNSET ARM OF DEAL LAKE**

**THIS FORM MUST BE COMPLETED  
AND SUBMITTED WITH THE BID REQUEST**

Name of Applicator	Applicator's NJDEP PCP License Number
Robert Schindler	50684B
Jeffrey Horn	20376B
Kevin Shank	54698B
Vince Giordano	57903B
Todd Schramm	55526B

New Jersey Pesticide Business License # 99877A