

**KENNETH SCHMITT**  
*Town Supervisor*

**TOWN OF CARMEL**  
**TOWN HALL**

**ANN SPOFFORD**  
*Town Clerk*

**FRANK D. LOMBARDI**  
*Town Councilman*  
*Deputy Supervisor*

60 McAlpin Avenue  
Mahopac, New York 10541  
Tel. (845) 628-1500 • Fax (845) 628-6836  
[www.carmelny.org](http://www.carmelny.org)

**KATHLEEN KRAUS**  
*Receiver of Taxes*

**JOHN D. LUPINACCI**  
*Town Councilman*  
**SUZANNE MC DONOUGH**  
*Town Councilwoman*  
**JONATHAN SCHNEIDER**  
*Town Councilman*

**MICHAEL SIMONE**  
*Superintendent of Highways*  
Tel. (845) 628-7474

**TOWN BOARD WORK SESSION**  
**Wednesday, September 14, 2016 7:00pm**

**Pledge of Allegiance – Moment of Silence**

**Town Board Work Session:**

- Review of Town Board Minutes – August 17, 2016
- 1. Consider Deletion to the Active List of the Carmel Fire Department
- 2. Consider Deletion to the Active List of the Mahopac Volunteer Fire Department
- 3. Michael Simone, Highway Superintendent – Consider Request to Advertise for Bids for Sand, Guide Rail and Winter Mix
- 4. James Gilchrist, Director of Recreation and Parks – Consider Request for Proposals for Re-Coating of Basketball Courts – Baldwin Meadows Park
- 5. James Gilchrist, Director of Recreation and Parks – Consider Request for Proposals for the Purchase and Installation of Safety Netting – McDonough Baseball Park
- 6. Richard Franzetti, PE, Town Engineer – Consider Accepting Proposal for Herbicide Treatment – Upper and Lower Teakettle Spout Lake District
- 7. Richard Franzetti, PE, Town Engineer – Consider Accepting Proposal for Landscaping Services for Town of Carmel Landfill
- 8. Richard Franzetti, PE, Town Engineer – Consider Accepting Proposal for Extension of Sludge Hauling Services for the Various Town of Carmel Sewer Districts
- 9. Councilwoman McDonough – Consider Proposed Amendments to Town of Carmel Town Code Section 156-28 in Regards to Multi-Family Dwellings
- 10. Councilwoman McDonough and Councilman Schneider- Consider Proposed Amendments to Town of Carmel Town Code Section 156 in Regards to Coops and Attached Runs for Chickens
- **Public Comment (Three (3) Minutes on Agenda Items Only)**
- **Town Board Member Comments**

**Open Forum:**

- **Public Comments on New Town Related Business (Three (3) Minutes Maximum per Speaker for Town Residents, Property Owners & Business Owners Only)**
- **Town Board Member Comments**
- **Adjournment**

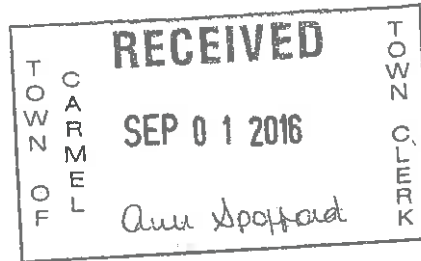
**Executive Session:**

1. Councilman Lupinacci – PBA Negotiation Update

**94 Gleneida Avenue  
Carmel, New York 10512  
(845) 225-5100  
FAX: 845-225-2252**

cc: Legal Counsel  
Supervisor  
Assessor

**Established 1915**



Dear Mrs. Spofford:

**Mathew Defeo**

~~XXXXXXXXXXXXXXXXXXXX~~

**Carmel, NY**

Respectfully Submitted,

*Respectfully Submitted,*

*Robert A. G.*

Robert Lipton  
2<sup>nd</sup> Assistant Chief





# MAHOPAC VOLUNTEER FIRE DEPARTMENT

Office of the President

cc. Legal Counsel  
Supervisor  
Assessor

President  
Frank Egelsen Jr

Post Office Box 267  
Mahopac, NY 10541

Vice President  
Matthew R. Bondi

Fire Headquarters  
(845) 628-3160  
Fax: (845) 628-2174

September 7, 2016

Ann Spofford, Town Clerk  
Town of Carmel  
60 McAlpin Ave.  
Mahopac, New York 10541

Dear Mrs. Spofford:

The following person has been dropped from the Roles of the  
Mahopac Volunteer Fire Department.

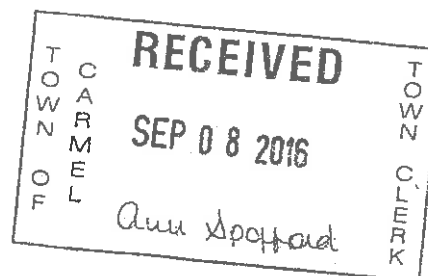
Maggie Bacon  
XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX  
Mahopac, NY., 10541  
XXXXXXXXXXXXXXXXXXXX

Respectfully Submitted

Farah Fieldale,  
Corresponding Secretary



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# TOWN OF CARMEL HIGHWAY DEPARTMENT

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Carmel Highway Department  
55 McAlpin Avenue  
Mahopac, NY 10541

**MICHAEL SIMONE**  
***Superintendent of Highways***

845.628.7474  
FAX 845.628.1471  
MSimone@bestweb.net

## **MEMORANDUM**

**TO:** Town Board  
**FROM:** Michael Simone – Highway Superintendent  
**DATE:** September 9, 2016  
**RE:** Highway Requests – Annual Fall Bids

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I am requesting that the following items be advertised for bid:

**Sand**  
**Guide Rail**  
**Winter Mix**

MS/Sen

cc Ann Spofford – Town Clerk



TOWN OF CARMEL RECREATION & PARKS DEPARTMENT  
 SYCAMORE PARK, 790 LONG POND ROAD  
 MAHOPAC, NEW YORK 10541

JAMES R. GILCHRIST, CPRP, DIRECTOR

TELEPHONE: (845) 628-7888 FAX: (845) 628-2820

EMAIL: [carmelrecreation@ci.carmel.ny.us](mailto:carmelrecreation@ci.carmel.ny.us)

WEB: <http://www.carmelny.org>

DATE: September 7, 2016

TO: Carmel Town Board

FROM: James R. Gilchrist, CPRP  
 Director, Recreation and Parks

SUBJECT: Baldwin Meadows Park Basketball Courts

I am requesting authorization to go out for RFPs for recoating the Baldwin Meadows Park basketball courts. A detailed description of the work is below:

- BASE – 1) All cuts and cracks greater than ¼" wide shall be cleaned and filled with acrylic patch mix.  
 2) Birdbaths shall be marked by flooding court, and then filled with trowel patch in ¼" lifts.
- ACRYLIC COLOR FINISH (Novacrylic Combination Surface)
  - 1) Entire surface shall be pressure washed to remove as much loose paint, dirt, and deteriorated asphalt as possible. Any peeled, chipped, or bubbled areas will be hand scraped and tacked with Nova Bond acrylic. *Note: site owner will supply water source adjacent to courts for pressure washing and tool maintenance.*
  - 2) The entire surface will be coated with two coats of rust inhibiting acrylic resurfacer to fill pavement voids, correct minor surface irregularities, and to seal existing surface.
  - 3) Two coats of Nova Play Playground finish shall be applied to produce a stiffer final surface (acrylic fortified) more suitable for basketball.
- PLAYING LINES: 1 coat of Seal-A-Line; 2 coats of Novatex (line paint)
  - 1) Basketball lines matching existing configurations: Playing lines shall be marked, masked, and sealed prior to application of 2 coats of NovaTex acrylic marking paint. Site owner to designate and approve position of lines.
- CONDITIONS:
  - 1) NYS Prevailing Wage Rate Schedule for Painter will apply to all costs for labor within this contract.

Please add this to the next Town Board meeting agenda, and contact me with any questions or concerns.

/sms



TOWN OF CARMEL RECREATION & PARKS DEPARTMENT  
SYCAMORE PARK, 790 LONG POND ROAD  
MAHOPAC, NEW YORK 10541

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DATE: September 7, 2016

TO: Carmel Town Board

FROM: James R. Gilchrist, CPRP  
Director, Recreation and Parks

SUBJECT: McDonough Park Baseball Field Safety Netting

I am requesting authorization to go out for RFPs to add safety netting to the small baseball field at McDonough Park. A detailed description of the work follows:

- Installation of 365' of extensions using 2" OD SS-40 pipe with 20' high of netting #36 (365 lbs. breaking strength) on top of 4' high existing galvanized chain link fence (total fence height 24').
- Installation of 120' of extensions using 2" OD SS-40 pipe and netting on top of existing 10' high galvanized chain link fence with 16' high of netting (total fence height 26').
- Note: The last 6 footings for 4' high existing fence on far right of backstop will be replaced (post reset).

Please add this to the next Town Board meeting agenda, and contact me with any questions or concerns.

/sms

Richard J. Franzetti, P.E.  
Town Engineer



(845) 628-1500  
(845) 628-2087  
Fax (845) 628-7085

**Office of the Town Engineer**  
60 McAlpin Avenue  
Mahopac, New York 10541

## MEMORANDUM

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**To:** Carmel Town Board

**From:** Richard J. Franzetti P.E. Town Engineer 

**Date:** September 2, 2016

**Re:** Upper and Lower Teakettle Spout Lake Herbicide Treatment

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This Department recently requested the attached proposal from the Pond and Lake Connection for herbicide treatments for the Upper and Lower Teakettle Spout Lakes. The Town Board should note that the Pond and Lake Connection has been performing this professional service adequately for the Teakettle Lake Park District since 2014.

This Department requested pricing for the next five (5) years (2017 through and including 2021). The cost provided is \$12,100.00 per year, for a total cost of \$60,500.00. It should be noted that the 2019, 2020 and 2021 costs were requested for the benefit of the Town of Carmel. Per the attached email the Pond and Lake Connection agreed to a two (2) year contract with the Town of Carmel having the exclusive and unilateral option to exercise the right to engage the bidder to provide these services at the prices stated for the remaining three (3) years of the contract.

The cost for this service has been included in the Teakettle Lake Park District budget.

Based upon the above, we recommend that the Town Board authorize The Pond and Lake Connection to perform this work.

I respectfully request that this be placed on your next Town Board work session agenda.

## Upper and Lower Teakettle Spout Lakes – Treatments

**Five Year Contract: 2017-2021**

### Upper Lake:

**Clipper Treatment: *Weeds*** (Labor and Chemicals) \$ 1,750.00  
(price per application: one estimated)

**Clipper Treatment: *Watermeal*** (Labor and Chemicals) \$ 1,950.00  
(price per application: one estimated)

**Cutrine Plus Treatment** (Labor and Chemicals) \$ 1,150.00  
Total for 3 treatments

\$383.33 x 3 Treatments  
(Please provide both a price per application and a total price for the 3 estimates treatments)

**Permit and Permit Preparation Fees:** \$ 300.00

**Sand Bagging Outflow:** \$ 0

**Downstream Modeling, Water and Sediment Testing** \$ 200.00

### Lower Lake:

**Clipper Treatment: *Weeds*** (Labor and Chemicals) \$ 2,750.00  
(price per application: one estimated)

**Clipper Treatment: *Watermeal*** (Labor and Chemicals) \$ 2,250.00  
(price per application: one estimated)

**Cutrine Plus Treatment** (Labor and Chemicals) \$ 1,250.00  
Total for 3 treatments

\$416.67 x 3 Treatments  
(Please provide both a price per application and a total price for the 3 estimates treatments)

**Permit and Permit Preparation Fees:** \$ 300.00

**Sand Bagging Outflow:** \$ 0

**Downstream Modeling, Water and Sediment Testing** \$ 200.00

**TOTAL ANNUAL COST PER YEAR:** \$ 12,100.00





# Clipper™ HERBICIDE



**For management of aquatic weeds  
in bayous, canals, drainage ditches,  
fresh water ponds, lakes, marshes  
and reservoirs**

| Active Ingredient   | By Wt. |
|---|--------|
| * Flumioxazin .....   | 51%    |
| Other Ingredients .....   | 49%    |
| Total .....   | 100%   |
| * 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoin-<br>dole-1,3(2H)-dione |        |

Clipper™ Herbicide is a water dispersible granule containing 51% active ingredient.

EPA Reg. No. 59639-161 EPA Est. 11773-IA-01

## KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BELOW FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing.

#### FIRST AID

- If inhaled:**
- Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.
  - Call a poison control center or doctor for further treatment advice.
- If on skin or clothing:**
- Take off contaminated clothing.
  - Rinse skin immediately with plenty of water for 15-20 minutes.
  - Call a poison control center or doctor for treatment advice.

(continued)

#### FIRST AID (continued)

- If in eyes:**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
  - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
  - Call a poison control center or doctor for treatment advice.
- If swallowed:**
- Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by the poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes and socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### ENVIRONMENTAL HAZARDS

If not used in accordance with directions on the label, this product can be toxic to non-target plants and aquatic invertebrates. Do not apply to water except as specified on the label. Drift and runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas, if not used in accordance to label directions. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and runoff precautions on this label in order to minimize off-site exposures.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the treatment area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

#### RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### LIMITED WARRANTY

**Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label,**

(continued)

(continued)

**under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.**

#### LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

#### PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from the date of application so that an immediate inspection of the affected property can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

#### NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability**, which may not be modified by any oral or written agreement.

### TANK MIXES

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

## PRODUCT INFORMATION

*Clipper* Herbicide is a broad spectrum contact herbicide for control of invasive and noxious weeds in

various water bodies with limited or no outflow. *Clipper* Herbicide controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis.

*Clipper* Herbicide is fast acting, and can be applied subsurface to control submersed and floating aquatic weeds. *Clipper* Herbicide can also control floating and emergent weeds growing on or above the water surface when the product is applied to the foliage of those plants. It is most effective when applied to young, actively growing weeds in water with a pH of less than 8.5. *Clipper* Herbicide breaks down rapidly and loses herbicidal effectiveness in high pH water (pH greater than 8.5).

*Clipper* Herbicide may be applied to the following bodies of water where there is limited or no outflow:

- Bayous
- Canals\*
- Drainage ditches
- Lakes
- Marshes
- Fresh water ponds
- Reservoirs

\*For application only to non-flowing canal water that will not be released for irrigation until 5 days after application.

Application of *Clipper* Herbicide to public aquatic areas may require special approval and/or permits. Consult with local state agencies, if required.

#### USE PRECAUTIONS AND RESTRICTIONS

- Do not apply to flowing water, intertidal or estuarine areas.
- There is no post-application holding restriction against use of treated water for drinking or recreational purposes (e.g. swimming, fishing).
- Treated water may not be used for irrigation purposes until at least five days after application.
- Do not use in water utilized for crawfish farming.
- Do not re-treat the same section of water with *Clipper* Herbicide more than 6 times per year.

#### RESISTANCE MANAGEMENT

*Clipper* Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants that are resistant to *Clipper* Herbicide and other Group 14 herbicides. Weed species with acquired resistance to Group 14 herbicides may eventually dominate the weed population if Group 14 herbicides are used repeatedly in the same water body or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by *Clipper* Herbicide or other Group 14 herbicides.

To delay or prevent herbicide resistance consider the following recommendations:

- Avoid the consecutive use of *Clipper* Herbicide or other herbicides that have a similar target site of action.
- Alternate herbicides used for aquatic weed control.

- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated weed populations for loss of efficacy.
- Contact your local extension specialist, other experts appropriate to aquatic use, and/or manufacturer for resistance and/or integrated weed management recommendations.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the following toll-free number: 800-89-VALENT (898-2536).

#### SPRAY DRIFT MANAGEMENT FOR FOLIAR OR SURFACE APPLICATIONS

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

Do not spray *Clipper* Herbicide under circumstances where spray droplets may drift on to unprotected persons, or plantings of food, forage or crops that might be damaged, or rendered unfit for sale, use or consumption. These precautions are not applicable for subsurface injection by closed systems.

- Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. For ground boom and aerial applications, use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.
- Make aerial, ground or watercraft-based applications when wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph.
- Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Low humidity and high temperatures increase the evaporation rate of spray droplets, and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

Properly maintain and calibrate all aerial, ground and water based application equipment.

Where states have more stringent regulations, they should be observed.

## APPLICATION AND SPRAYER INFORMATION

### Mixing Instructions

- Mix with water having pH of 5 to 7. If pH is higher than 7, use an appropriate buffer to reduce pH to desirable range.
- Fill clean spray tank 1/2 full of desired level with water and add buffering agent if necessary.
- Add the required amount of *Clipper* Herbicide to the spray tank while agitating.
- Fill spray tank to desired level with water. Ensure that *Clipper* Herbicide is thoroughly mixed before making applications. Agitation should continue until spray solution has been applied.
- Mix only the amount of spray solution that can be applied the day of mixing. Apply *Clipper* Herbicide within 12 hours of mixing.

### ADDITIVES

When applying *Clipper* Herbicide to the foliage of floating or emerged aquatic weeds, mix with an adjuvant approved for use in aquatic sites. Valent recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Mix *Clipper* Herbicide with a non-ionic surfactant containing at least 80% active ingredient. Follow adjuvant manufacturer's label rates. Mixing compatibility should be verified by a jar test before using.

### Jar Test to Determine Compatibility of Adjuvants and *Clipper* Herbicide

Conduct a jar test before mixing commercial quantities of *Clipper* Herbicide, when using for the first time, when using new adjuvants or when a new water source is being used.

1. Add 1 pt of water to a quart jar. The water should be from the same source and have the same temperature as the water used in the spray tank mixing operation.
2. Add 3 grams (approximately 1 level tsp) of *Clipper* Herbicide for the 8 oz/A rate or 4 grams (approximately 1-1/2 tsp) for 12 oz/A rate to the jar. Gently mix until product disperses.
3. Add 60 ml (4 Tbsp or 2 fl oz) of additive to the quart jar and gently mix.
4. If nitrogen is being used, add 16 ml (1 Tbsp) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 grams of AMS to the quart jar in place of the 28 to 32% nitrogen.
5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed the choice of adjuvant should be questioned:
  - a) Layer of oil or globules on the solution surface.
  - b) Flocculation: Fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: Thickening texture (coagulated) like gelatin.

### Sprayer Cleanup

If spray equipment is dedicated to application of

aquatic herbicides, the following steps are recommended to clean the spray equipment:

- Completely drain the spray tank and rinse the application equipment thoroughly, including the inside and outside of the tank and all in-line screens.

If spray equipment will be used for purposes other than applying aquatic herbicides, it must be thoroughly cleaned following application of *Clipper* Herbicide. The following steps must be used to clean the spray equipment:

1. Completely drain the spray tank and rinse the application equipment thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the tank with clean water and flush all hoses, booms, screens and nozzles.
3. Top off tank with clean water.
4. Circulate through sprayer for 5 minutes.
5. Then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes.
6. Drain tank completely.
7. Remove all nozzles and screens and rinse them with clean water.

## DIRECTIONS FOR USE TO CONTROL FLOATING AND EMERGED WEEDS USING SURFACE APPLICATION

*Clipper* Herbicide will control weeds and algae listed in Table 1 when applied as a broadcast spray with appropriate equipment. For best results, apply *Clipper* Herbicide to the foliage of actively growing weeds.

**Table 1. Floating and Emerged Weeds**

| Common Name       | Scientific Name                    |
|-------------------|------------------------------------|
| Alligator Weed    | <i>Alternanthera philoxeroides</i> |
| Frog's-bit        | <i>Limnobium spongia</i>           |
| Water Fern        | <i>Salvinia</i> spp.               |
| Water Lettuce     | <i>Pistia stratiotes</i>           |
| Water Pennywort   | <i>Hydrocotyle</i> spp.            |
| Filamentous algae | <i>Pithophora</i>                  |
| Filamentous algae | <i>Cladophora</i>                  |

### Surface Application

Apply *Clipper* Herbicide as a broadcast spray at 6 to 12 ounces of formulated product per acre. Apply in a sufficient volume of water per acre to ensure adequate coverage. Buffer spray solution to pH less than 7.0 (see Mixing Instructions).

Application of *Clipper* Herbicide during early morning hours may enhance weed control. When applying to densely packed actively growing surface weeds, ensure adequate coverage. A second application may be required for complete control under these conditions. Rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat floating surface weeds in sections to avoid a rapid decrease in dissolved oxygen. Treat up to half of the water body and wait 10 to 14 days before



treating the remaining area. Do not re-treat the same section of water within 28 days of application.

*Clipper* Herbicide may be tank mixed with 2,4-D, diquat or other registered foliar applied herbicides for enhanced control of floating and emergent weeds.

Consult a manufacturer's label for specific rate restrictions and weeds controlled. Always follow the most restrictive label restrictions and precautions for all products used when making an application involving tank mixes.

### Floating Filamentous Algae

When applied at rates of 6 to 12 ounces per acre as a surface spray, *Clipper* Herbicide provides control of floating filamentous algae, including *Pithophora* and *Cladophora*. Follow application instructions for surface foliar applications.

### Application Equipment

Apply *Clipper* Herbicide with sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Apply by backpack or hand-gun sprayer, airboat, helicopter, airplane or other application equipment that will ensure thorough coverage of target plant foliage.

### AERIAL APPLICATION

Apply *Clipper* Herbicide by air at 6 to 12 ounces of formulated product per acre. To obtain satisfactory weed control, aerial application of *Clipper* Herbicide, must provide uniform coverage of weeds. Do not apply by air when drift is possible or when wind velocity is more than 10 mph. Avoid spraying *Clipper* Herbicide within 200 feet of dwellings, adjacent sensitive crops or environmentally sensitive areas. To obtain satisfactory application and avoid drift, the following directions must be observed:

#### Volume and Pressure

Apply *Clipper* Herbicide in 5 to 10 gals of water per acre, with a maximum spray pressure of 40 PSI. Application at less than 5 gals per acre may not provide adequate weed control. Higher gallonage applications generally provide more consistent weed control.

#### Nozzles and Nozzle Operation

Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles such as diaphragm type nozzles to avoid unwanted discharge of spray solution. The nozzle must be directed toward the rear of the aircraft, at an angle between 0° and 15° downward. Do not place nozzles on the outer 25% of the wings or rotors.

#### Adjuvants

Refer to the additive section or the tank mix partners label for adjuvant recommendation.

## DIRECTIONS FOR USE TO CONTROL SUBMERSED AND FLOATING WEEDS USING SUBSURFACE APPLICATION

*Clipper* Herbicide will control submersed and floating weeds listed in Table 2, when applied subsurface with appropriate equipment.

Apply uniformly to ensure sufficient contact time. *Clipper* Herbicide breaks down rapidly, and uniform coverage is essential to maximize efficacy.

**Table 2. Submersed and Floating Weeds Controlled by Subsurface Application**

| Common Name                 | Scientific Name                   |
|-----------------------------|-----------------------------------|
| Coontail                    | <i>Ceratophyllum demersum</i>     |
| Duckweed                    | <i>Lemna</i> spp.                 |
| Fanwort                     | <i>Cabomba caroliniana</i>        |
| Hydrilla                    | <i>Hydrilla verticillata</i>      |
| Naiad, Southern             | <i>Najas guadalupensis</i>        |
| Pondweed, Curlyleaf         | <i>Potamogeton crispus</i>        |
| Pondweed, Illinois          | <i>Potamogeton illinoensis</i>    |
| Pondweed, Sago              | <i>Potamogeton pectinatus</i>     |
| Pondweed, Variable-Leaf     | <i>Potamogeton diversifolius</i>  |
| Water Fern                  | <i>Salvinia</i> spp.              |
| Water Lettuce               | <i>Pistia stratiotes</i>          |
| Watermeal                   | <i>Wolffia</i> spp.               |
| Watermilfoil, Eurasian      | <i>Myriophyllum spicatum</i>      |
| Watermilfoil, Variable-Leaf | <i>Myriophyllum heterophyllum</i> |

Best results will be achieved when applied to young or actively growing vegetation. *Clipper* Herbicide will be most efficacious against submersed weed species when applied to actively growing plants with limited biomass, and when weeds are growing in lower pH (less than 8.5) waters with high light penetration into the water column. Rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat water body in sections to avoid a rapid decrease in dissolved oxygen. Treat up to half of the water body and wait 10 to 14 days before treating the remaining area. Do not retreat the same section of water within 28 days of application.

### Subsurface Application Rates

Apply *Clipper* Herbicide at a rate that will produce an initial concentration of 100 to 400 ppb (of active ingredient flumioxazin) in the water column. Apply in a sufficient volume of water per acre to ensure adequate contact with target weeds. Use Table 3 to determine amount of *Clipper* Herbicide needed to achieve desired concentration at different water depths. Use higher concentrations when weed biomass is heavy and/or weeds are more mature and topped out. Do not exceed 400 ppb of the active ingredient flumioxazin during any one application. When making applications to water bodies greater than 7 feet deep, do not exceed 14.8 pounds of product per surface acre. Buffer spray solution to pH less than 7.0 (see Mixing Instructions).

Due to photosynthetic processes of submersed plants and algae, water pH tends to be lower in early morning hours compared to afternoon hours. Therefore, in water bodies with a higher pH, apply as early in the morning as possible to maximize the length

of time *Clipper* Herbicide will remain at efficacious concentrations in the water column.

#### Application Equipment

To ensure adequate coverage, apply *Clipper* Herbicide with weighted trailing hoses in order to place the herbicide under the surface and throughout the biomass of aquatic vegetation. Keep swath width to a minimum in order to maximize contact with submersed aquatic vegetation.

#### Information on Hydrilla Control

For best control of hydrilla, apply during the late Winter (February/March) and Fall (October/November). Efficacy of *Clipper* Herbicide will be enhanced at these timings due to lower potential biomass present and lower pH of the water. If applied to mature topped out hydrilla, *Clipper* Herbicide will cause some discoloration and loss of growing tips, but regrowth will be rapid.

*Clipper* Herbicide may be tank mixed with other aquatic herbicides and applied as a subsurface treatment for hydrilla control. Hydrilla control may be improved by tank mixing *Clipper* Herbicide with Reward® Landscape and Aquatic Herbicide or other registered contact herbicides.

Consult a manufacturer's labels for specific rate restrictions and weeds controlled. Always follow the most restrictive label restrictions and precautions for all products used when making an application involving tank mixes.

#### Effects of Water pH on Control of Submersed Plants

All aquatic herbicides require specific concentration and contact times in order to control aquatic weeds. *Clipper* Herbicide is very rapidly absorbed by target plants, but also breaks down rapidly in water with a pH greater than 8.5. The pH of water surrounding mats of submersed vegetation can exceed 8.5 by early to mid-day, due to photosynthetic processes. Application of *Clipper* Herbicide under these conditions may only provide partial weed control, and rapid regrowth is likely. For best control, apply *Clipper* Herbicide in the early morning to actively growing aquatic weeds and early in the season before surface matting occurs. Application of *Clipper* Herbicide with weighted hoses designed to distribute the herbicide within the plant stand will generally provide more effective and longer term control of submersed weeds.

**Table 3. Subsurface Application Rates**

| Water Depth (feet) | Pounds of <i>Clipper</i> Herbicide required per surface acre to achieve desired water concentration |         |         |
|--------------------|---|---------|---------|
|                    | 100 ppb   | 200 ppb | 400 ppb |
| 1                  | 0.53  | 1.1     | 2.1     |
| 2                  | 1.1   | 2.1     | 4.2     |
| 3                  | 1.6   | 3.2     | 6.4     |
| 4                  | 2.1   | 4.2     | 8.5     |
| 5                  | 2.6   | 5.3     | 10.6    |
| 6                  | 3.2   | 6.4     | 12.7    |
| 7                  | 3.7   | 7.4     | 14.8    |

Example: to achieve an initial concentration of 100 ppb of flumioxazin in a 4 foot deep water column, apply 2.1 lbs of *Clipper* Herbicide per surface acre.

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## STORAGE AND DISPOSAL

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### PESTICIDE STORAGE

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

Keep pesticide in original container.

Store in a cool, dry, secure place.

Do not put formulation or dilute spray solution into food or drink containers.

Do not contaminate food or foodstuffs.

Do not store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night **(800) 892-0099**.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill the container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

*Clipper* is a trademark and *Products That Work, From People Who Care* is a registered trademark of Valent U.S.A. Corporation

Reward is a registered trademark of Syngenta Group Company

Manufactured for:

**Valent U.S.A. Corporation**

P.O. Box 8025

Walnut Creek CA 94596-8025

Made in U.S.A.

Form 1791-A

EPA Reg. No. 59639-161

EPA Est. 11773-IA-01

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-89-VALENT (898-2536).



For state registration and/or supplemental labels, please call or visit us online.

*Products That Work, From People Who Care*® | [www.valentpro.com](http://www.valentpro.com) | 800-89-VALENT (898-2536)

***Read and follow the label instructions before using.***

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# CUTRINE®-PLUS

## ALGAECIDE and HERBICIDE

### GENERAL INFORMATION

This product is a liquid copper-based formulation containing ethanolamine chelating agents to prevent the precipitation of copper with carbonates and bicarbonates in the water. This product effectively controls a broad range of algae including: **Planktonic** (suspended) forms such as the Cyanobacteria (*Microcystis*, *Anabaena* & *Aphanizomenon*), Green algae (*Raphidocelis* & *Cosmarium*) Golden algae (*Prymnesium parvum*) and diatoms (*Navicula* & *Fragilaria*); **Filamentous** (mat-forming) forms such as the Green Algae (*Spirogyra*, *Cladophora*, *Ulothrix* & *Rhizoclonium*) and **Benthic** (bottom-growing) forms such as *Chara* and *Nitella*. This product has also been proven effective in controlling the rooted aquatic plant, *Hydrilla verticillata*. Waters treated with This product may be used for swimming, fishing, further potable water treatment, livestock watering or irrigating turf, ornamental plants or crops after treatment.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters. Read entire label and use strictly in accordance with precautionary statements and directions.

#### GENERAL APPLICATION RESTRICTIONS:

(For end-use products in containers  $\geq 5$  gallons or  $\geq 50$  pounds.)

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribe agency responsible for pesticide regulation.

(For end-use consumer products in containers less than 5 gallons or less than 50 pounds)

Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift. Some states may require permits for the application of this product to public waters. Check with your local authorities. (For all sizes) Do not enter or allow others to enter until application of product has been completed.

#### PRE-TREATMENT CONSIDERATIONS:

(For end-use products in containers  $\geq 5$  gallons or  $\geq 50$  pounds.)

In Potable Water Reservoirs, Lakes, Industrial Ponds & Wastewater or other monitored water systems, initial treatment with this product must be considered at the onset of nuisance bloom conditions as evidenced by initial taste and odor complaints; high cell counts or chlorophyll a concentrations; high MIB or geosmin concentrations; visible surface scum formations; low Secchi disk readings; significant daily fluctuations in dissolved oxygen; and/or sudden increases in pH. Monitoring of several of these parameters on a regular basis will assist in optimizing the timing of treatments and reducing the amounts of this product needed for seasonal control. Identification of primary nuisance species or genera may also be helpful in determining and refining dosage rates.

(For end-use consumer products in containers less than 5 gallons or less than 50 pounds)

In Ponds (Farm, Fire, Fish, Golf Course, Irrigation, Ornamental, Stormwater Retention, Swimming), Small Lakes, Fish Hatcheries, Aquaculture Facilities, treatment with this product should be started when visible, actively growing algae and susceptible plants appear in spring, preferably before significant surface accumulations occur. Aeration and/or fountain system, where available, should be in operation at the time of treatment.

#### Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and the method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

#### Droplet Size

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

#### Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet down wind.

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

#### Equipment

All ground application equipment must be properly maintained and calibrated using appropriate carriers or surfactants.

FOR USE IN: LAKES; POTABLE WATER RESERVOIRS; PONDS; FISH HATCHERIES AND RACEWAYS; CROP AND NON-CROP IRRIGATION CONVEYANCE SYSTEMS (DITCHES, CANALS AND LATERALS)

#### ACTIVE INGREDIENTS:

Copper Ethanolamine Complex, Mixed (Mono CAS# 14215-52-2 and Tri CAS# 82027-59-6)\* .....27.9%

OTHER INGREDIENTS.....72.1%

TOTAL.....100.0%

\*Metallic copper equivalent, 9%.  
Contains 0.909 lbs. of elemental copper per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautions on Back Panel



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Pat. No. 3,930,834  
EPA Reg. No. 8959-10  
EPA Est. No. 42291-GA-1

This specimen label is intended as informational purposes only and not for use as container labeling.



## SURFACE SPRAY / INJECTION

### SLOW-FLOWING OR QUIESCENT WATER BODIES

#### ALGAECIDE APPLICATION

For effective control, proper chemical concentration must be maintained for a minimum of three hours contact time. The application rates in the chart are based on static or minimal flow situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three hour period, chemical may have to be metered in.

- Identify the form of algae growth present as one of the following types: Planktonic (suspended), Filamentous (mat forming), or Benthic (Chara/Nitella) and estimate the density of growth (Low, Medium, High). Use **Table 1 - Copper Concentration** to select the desired PPM (Parts per Million) Copper needed, based upon the algal form and density.

Table 1 - Copper Concentration

| Form of Algal Growth | Density of Growth |        |      |
|----------------------|-------------------|--------|------|
|                      | Low               | Medium | High |
| Planktonic           | 0.2               | 0.4    | 0.6  |
| Filamentous          | 0.2               | 0.6    | 0.8  |
| Benthic              | 0.4               | 0.7    | 1.0  |

Table 2 - Product Application Rate (Gallons)

| PPM Copper         | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gallon per Acre-ft | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |

- Refer to the **Table 2 - Product Application Rate** and determine gallons of product needed per Acre-foot corresponding to the desired PPM concentration determined in Step #1.

- Determine acre-feet within the intended treatment area (area of infestation) by measuring length, width plus averaging several depth readings within the treatment area. Use the formula:

$$\frac{\text{Length (ft.)} \times \text{Width (ft.)} \times \text{Avg. Depth (ft.)}}{43,560} = \text{Acre-Feet}$$

- Multiply Acre-Feet calculated in Step #3 times the gallons of this product determined in Step #2 to determine number of gallons of this product required for the intended treatment area.
- Before applying, dilute the required amount of this product with enough water to ensure even distribution with the type of equipment being used. Typical dilution range is 9:1 when using backpack-type sprayer or up to 50:1 when using water pump equipment or large tank sprayers.
- Break up floating algae mats manually before spraying or with force of power sprayer if one is used. Use hand or power sprayer adjusted to rain-sized droplets to cover area evenly taking water depth into consideration. If using underwater injection systems such as drop hoses or booms with weighted drop hoses, ensure boat pattern is uniform throughout treatment area. Spray shoreline areas first to avoid trapping fish.
- Clean spray equipment by flushing with clean water after treatment and follow **STORAGE AND DISPOSAL** instructions on the label for empty or remaining partial containers.
- Under conditions of heavy infestation, treat only 1/3 to 1/2 of the water body at a time to avoid fish suffocation caused by oxygen depletion from decaying algae. (see additional Environmental Hazards).

#### OTHER TREATMENT FACTORS AND CONSIDERATIONS

- Calm and sunny conditions when water temperature is at least 60°F will usually expedite control results.
- Effective control of algae requires direct contact with all cells throughout the water column, since these plants do not have vascular systems to transport copper from cell to cell.
- Visible reduction in algae growth should be observed in 24 to 48 hours following application with full infestation and water temperatures.
- Re-treat areas if re-growth or new growth begins to appear and seasonal control is desired. Identify new growth to re-check required copper concentration that may be needed for control. Apply treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas.
- No more than 1/2 of the water body may be treated at one time. (refer to Environmental Hazards for additional guidance)
- The minimum retreatment interval between consecutive treatments is 14 days.

**CUTRINE-PLUS Granular Algaecide** may be used as an alternative in low volume flow situations, spot treatments or treatment of bottom-growing algae in deep water.

**Permits:** Some states may require permits for the application of this product to public waters. Check with your local authorities.

## HERBICIDE APPLICATION (For Hydrilla Control)

**CUTRINE-PLUS®:** Control of *Hydrilla verticillata* can be obtained from copper concentrations of 0.4 to 1.0 ppm resulting from product treatment. Choose the application rate based upon stage and density of Hydrilla growth and respective water depth from the chart below.

### CUTRINE-PLUS : HARVESTER® TANK MIX

On waters where enforcement of use restrictions for recreational, domestic and irrigation uses are acceptable, the following mixture can be used as an alternative Hydrilla control method.

Tank mix 3 gallons of **CUTRINE-PLUS** with 2 gallons of **HARVESTER**. Apply mixture at the rate of 5 gallons per surface acre. Dilute with at

least 9 parts water and apply as a surface spray or underwater injection. Observe all cautions and restrictions on the labels of both products used in this mixture.

Application Rates  
Gallons/Surface Acre\*

| Growth/Stage<br>Relative<br>Density | PPM<br>copper | Average Depth (in feet)* |     |     |      |      |      |
|-------------------------------------|---------------|--------------------------|-----|-----|------|------|------|
|                                     |               | 1                        | 2   | 3   | 4    | 5    | 6    |
| Early Season<br>Low Density         | 0.4           | 1.2                      | 2.4 | 3.6 | 4.8  | 6.0  | 7.2  |
|                                     | 0.5           | 1.5                      | 3.0 | 4.5 | 6.0  | 7.5  | 9.0  |
|                                     | 0.6           | 1.8                      | 3.6 | 5.4 | 7.2  | 9.0  | 10.8 |
| Mid-Season<br>Moderate Density      | 0.7           | 2.1                      | 4.2 | 6.3 | 8.4  | 10.5 | 12.6 |
|                                     | 0.8           | 2.4                      | 4.8 | 7.2 | 9.6  | 12.0 | 14.4 |
| Late Season<br>High Density         | 0.9           | 2.7                      | 5.4 | 8.1 | 10.8 | 13.5 | 16.2 |
|                                     | 1.0           | 3.0                      | 6.0 | 9.0 | 12.0 | 15.0 | 18.0 |

\*Application rates for depths greater than six feet may be obtained by adding the rates given for the appropriate combination of depths. Application rates should not result in excess of 1.0 ppm copper concentration within treated water.

## FLOWING WATER

### DRIP SYSTEM APPLICATION -

### FOR USE IN POTABLE WATER AND IRRIGATION CONVEYANCE SYSTEMS

#### PRE-TREATMENT CONSIDERATIONS

In **Crop and Non-Crop Irrigation Conveyance Systems:** Ditches Canals & Laterals, product treatments must be applied as soon as algae or aquatic vascular plants begin to interfere noticeably with normal delivery of water (clogging of lateral headgates, suction screens, weed screens and siphon tubes). Delaying treatment could perpetuate the problem causing massing and compacting of plants. Heavy infestations and low flow conditions may require increasing water flow rate during application.

Accurately determine water flow rates. In the absence of weirs, orifices, or similar devices which give accurate water flow measurements, volume of flow may be estimated by the following formula:

$$\text{Average Width (feet)} \times \text{Average Depth (feet)} \times \text{Velocity* (feet/second)} \times 0.9 = \text{Cubic Feet per Second (C.F.S.)}$$

\*Velocity is the time it takes a floating object to travel a given distance. Dividing the distance traveled (feet) by the time (seconds) will yield velocity (feet/second). Repeat this measurement at least three times at the intended application site then averaged.

- After accurately determining the water flow rate in C.F.S. or gallons/minute, find the corresponding product drip rate on the chart below.
- Calculate the amount of this product needed to maintain the drip rate for a period of 3 hours by multiplying Qts./Hr. x 3; ml/Min. x 180; or Fl. Oz./Min. x 180. Dosage will maintain 1.0 ppm Copper concentration in the treated water for the 3 hour period. Introduction of the chemical should be made in the channel at weirs or other turbulence-creating structures to promote the dispersion of chemical.

| WATER FLOW RATE |           | PRODUCT DRIP RATE* |         |             |
|-----------------|-----------|--------------------|---------|-------------|
| C.F.S.          | Gal./Min. | Qts./Hr.           | ml/Min. | Fl.Oz./Min. |
| 1               | 450       | 1                  | 16      | 0.5         |
| 2               | 900       | 2                  | 32      | 1.1         |
| 3               | 1350      | 3                  | 47      | 1.6         |
| 4               | 1800      | 4                  | 63      | 2.1         |
| 5               | 2250      | 5                  | 79      | 2.7         |

- Pour the required amount of this product into a drum or tank equipped with a brass needle valve and constructed to maintain a constant drip rate. Use a stop watch and appropriate measuring container to set the desired drip rate. Readjust accordingly if flow rate changes during the 3 hour treatment period.
- Distance of control obtained down the waterway will vary depending upon density of vegetation growth. Treatment period may have to be extended up to 6 hours in areas where control may be difficult due to high flows or significant growth. Periodic maintenance treatments may be required to maintain seasonal control.

## Chemigation System Application

This product may be applied for the maintenance of chemigation systems. To control algae in chemigation systems this product should be applied continuously during water application. For continuous addition application apply 0.60 – 3.0 gallons of this product per 1,000,000 (one million) gallons of water (1.80 - 9.0 gallons of this product per acre-foot of water). The copper concentration range is 0.20 to 1.0 ppm. Do not exceed 1.0 ppm of copper or 2.75 gallons of this product per 100,000 gallons of water. For additional guidance regarding specific calibrations or application techniques contact application equipment manufacturer, supplier, or pest control advisor. It is not necessary to agitate or dilute this product in the supply tank before application to chemigation systems.

| Application Rates for Chemigation Systems |                                      |
|---|--------------------------------------|
| Copper Concentration (ppm)                | Amount of This Product Per Acre-Foot |
|   | Gallons                              |
| 0.2                                       | 0.60                                 |
| 0.3                                       | 0.90                                 |
| 0.4                                       | 1.20                                 |
| 0.5                                       | 1.50                                 |
| 0.6                                       | 1.80                                 |
| 0.7                                       | 2.10                                 |
| 0.8                                       | 2.40                                 |
| 0.9                                       | 2.70                                 |
| 1.0                                       | 3.00                                 |

## CHEMIGATION SYSTEM APPLICATION

- Apply product only through sprinkler and drip irrigation systems including: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin), furrow, border or drip systems.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, contact Applied Biochemists, State Extension Service, equipment manufacturer, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place (refer to the **Chemigation Systems Connected to a Public Water Supply** section of this label).
- Trained personnel, knowledgeable of the Chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. The system should be inspected, calibrated, and maintained before product application begins.

## Chemigation Systems Connected to a Public Water Supply

- Public water system is a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the backflow of solution toward the injection.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides in use and capable of being fitted with a system interlock.
- Inspect, calibrate and maintain the system before product application.

## Sprinkler Chemigation Requirements

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the backflow of solution toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when drift would extend beyond the area intended for treatment.

## Floor (Basin). Furrow and Border Chemigation Requirements

- Gravity Flow Systems pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.
- Pressurized water systems with a pesticide injection system must meet the following requirements:
  - The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
  - The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the backflow of solution toward the injection pump.
  - The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
  - The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
  - Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

## Drip Chemigation Requirements

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the backflow of solution toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

## Submersed Plant Control Applications

This product can be applied to control hydrilla (*Hydrilla verticillata*), egeria (*Egeria densa*), and other aquatic weeds susceptible to copper treatment. Apply at a rate to achieve 0.70 to 1.0 ppm copper (3.72 to 5.32 Gallons/Acre foot). In heavily infested areas, a second application after the 14 day retreatment interval may be necessary.

## Tank Mix Applications

This product can be tank mixed with other herbicides to improve efficacy; and to control algae in areas where heavy algae growth may cover target submersed plant species and interfere with herbicide exposure. Do not mix concentrates in tank without first adding water. To ensure compatibility, conduct a jar test before application. This product must not be mixed with any product containing a label prohibition against such mixing and must be used in accordance with the most restrictive label limitations and precautions. Label dosage rates must not be exceeded.

## FIRST AID

### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a Poison Control Center or doctor for treatment advice.

### If swallowed:

- Call a Poison Control Center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a Poison Control Center or doctor.
- Do not give anything by mouth to an unconscious person.

### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a Poison Control Center or doctor for treatment advice.

### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a Poison Control Center or doctor for further treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

In case of emergency call 1-800-654-6911

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant footwear plus socks,
- Protective eyewear (such as goggles, safety glasses or face shield)
- Chemical-resistant gloves made of any waterproof material, and a chemical-resistant apron when mixing, loading, or cleaning equipment.

### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash outside of gloves before removing.

Potable water sources treated with this copper product may be used as drinking water only after proper additional potable water treatments.

### ENVIRONMENTAL HAZARDS:

Do not use in waters containing Koi and hybrid goldfish. Not intended for use in small volume, garden pond systems.

### FISH AND AQUATIC ORGANISMS:

Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze time to prevent masses of decaying algae under an ice cover. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required. This pesticide is toxic to some fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Certain water conditions including low pH (6.5) low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organism. Potable water sources treated with copper products may be used as drinking water only after proper additional potable water treatments. Trout and other species of fish may be killed at application rates recommended on the label, especially in soft or acidic waters as described above. Do not contaminate water when disposing of equipment wash-waters or rinsate.

To protect listed species in California, contact your County Agricultural Commissioner or refer to the Department of Pesticide Regulation's PRESCRIBE Internet Database: <http://www.cdpr.ca.gov/docs/endspec/prestinct>

## STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

### PESTICIDE STORAGE:

Keep container closed when not in use. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not reuse or refill container. Do not contaminate feed, feedstuffs, or drinking water. Do not store or transport near feed or food.

### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL:

*(For ≤5 gallon non-refillable containers only):*

Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

*(For >5 gallon non-refillable containers only):*

Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 with water and recap. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

*(For 275 Gallon refillable container only):* Refillable container. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat rinsing procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

## WARRANTY

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions.

Cutrine-Plus® and Harvester® are registered trademarks of Arch Chemicals, Inc.

**From:** [Lisa Mariakakis](#)  
**To:** [Franzetti, Richard](#)  
**Subject:** RE: 08-31-16 RE: Upper and Lower Teakettle Spout Lakes  
**Date:** Thursday, September 01, 2016 12:47:14 PM

---

Yes, that is fine. Thank you!

*Lisa A. Mariakakis*

Stahl Holdings, LLC  
The Pond & Lake Connection  
203-426-7055  
[www.thepondconnection.com](http://www.thepondconnection.com)

---

**From:** Franzetti, Richard [mailto:[rjf@ci.carmel.ny.us](mailto:rjf@ci.carmel.ny.us)]  
**Sent:** Wednesday, August 31, 2016 2:21 PM  
**To:** 'Lisa Mariakakis' <[pondconnection@gmail.com](mailto:pondconnection@gmail.com)>  
**Subject:** 08-31-16 RE: Upper and Lower Teakettle Spout Lakes

Lisa,

Thanks. Please note that I when this proposal is presented to the Town of Carmel Town Board I will include the following language regarding the terms of the contract:

- This is a it is a two (2) year contract;
- The Town of Carmel has the unilateral option of three (3) one (1) extensions;
- Costs per year are as presented in the proposal.

Please advise if this is acceptable.

Richard J. Franzetti. P.E, BCEE, LEED <sup>AP</sup>  
Town Engineer  
60 McAlpin Avenue  
Mahopac, New York 10541  
Phone - (845) 628-1500 ext 181  
Fax – (845) 628-7085  
Cell – (914) 843-4704  
[rjf@ci.carmel.ny.us](mailto:rjf@ci.carmel.ny.us)

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**From:** Lisa Mariakakis [<mailto:pondconnection@gmail.com>]  
**Sent:** Wednesday, August 31, 2016 1:33 PM  
**To:** Franzetti, Richard  
**Subject:** Fwd: Upper and Lower Teakettle Spout Lakes

Good Afternoon,

Attached, please find the 5 year pricing for the treatments of Upper and Lower Tea Kettle Spout Lakes from The Pond and Lake Connection. Overall the pricing is \$400 less per year and locked in for 5 years. Also attached are the labels for Clipper and Cutrine Plus. Please let us know if you have any questions. Thank you!

*Lisa A. Mariakakis*

Stahl Holdings, LLC  
The Pond & Lake Connection  
[203-426-7055](tel:203-426-7055)  
[www.thepondconnection.com](http://www.thepondconnection.com)



Richard J. Franzetti, P.E.  
Town Engineer




(845) 628-1500  
(845) 628-2087  
Fax (845) 628-7085

**Office of the Town Engineer**  
60 McAlpin Avenue  
Mahopac, New York 10541

## MEMORANDUM

---

**To:** Carmel Town Board

**From:** Richard J. Franzetti P.E. Town Engineer 

**Date:** August 22, 2016

**Re:** Landfill Maintenance Proposal – **Renewal for 2017, 2018 and 2019**

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As the Board may recall, in 2014, the Engineering Department solicited proposals for maintenance at the Town of Carmel Landfill. (R2014-004) The proposal identified that the contract would be effective for three (3) years (2014-2016), with the Town of Carmel having the unilateral option to renew the contract for up to three more years or any portion thereof (2017-2019).

Coviello's Landscaping was the lowest responsible proposer. A copy of Engineering Department's May 8, 2014 memorandum summarizing the initial proposal to the Town and the May 21, 2014 Town Board resolution are attached.

The cost for the Landfill maintenance for years 2017, 2018, and 2019, as identified in the proposal, is \$15,000.00 per year (for each year)

Coviello landscaping has performed to the satisfaction of the Engineering Department. This Department contacted Coviello Landscaping to ascertain if they are interested in continuing this service for 2017, 2018 and 2019. They responded that they would like to renew the contract. A copy of this correspondence is attached.

Therefore, based upon the above, the Engineering Department recommends that this contract be renewed.

Mary Ann Maxwell provided the attached indicating that the 2017, 2018, and 2019 budgets will include the \$15,000 for this service.

I therefore respectfully request that the Board placed on your next Town Board work session agenda.

Richard J. Franzetti, P.E.  
Town Engineer




(845) 628-1500  
(845) 628-2087  
Fax (845) 628-7085

**Office of the Town Engineer**  
60 McAlpin Avenue  
Mahopac, New York 10541

## MEMORANDUM

---

**To:** Carmel Town Board

**From:** Richard J. Franzetti P.E. Town Engineer 

**Date:** May 8, 2014

**Re:** Landfill Maintenance Proposals **R2014-0004**

---

Proposals were solicited to perform maintenance at the Town of Carmel Landfill. The proposal identified that the contract would be effective for three (3) years (2014-2016), with the Town of Carmel having the unilateral option to renew the contract for up to three more years or any portion thereof (2017-2019). The Request for Proposals included a provision that attendance at a Mandatory Pre-Proposal Meeting was required.

Proposals were received from the following:

1. Gertsen Landscaping

\$5,500.00 for 2014  
\$5,500.00 for 2015  
\$5,500.00 for 2016  
\$5,500.00 for 2017  
\$5,500.00 for 2018  
\$5,500.00 for 2019

|                                |                    |
|--------------------------------|--------------------|
| <u>Total costs for 3 years</u> | <u>\$16,500.00</u> |
| <u>Total costs for 6 years</u> | <u>\$33,000.00</u> |

2. Quality Welding and Excavating

\$16,000.00 for 2014  
\$16,100.00 for 2015  
\$16,200.00 for 2016  
\$16,500.00 for 2017  
\$16,600.00 for 2018

RE: RFP's for Landfill Maintenance

\$16,800.00 for 2019

|                                |                    |
|--------------------------------|--------------------|
| <u>Total costs for 3 years</u> | <u>\$48,300.00</u> |
|--------------------------------|--------------------|

|                                |                    |
|--------------------------------|--------------------|
| <u>Total costs for 6 years</u> | <u>\$98,200.00</u> |
|--------------------------------|--------------------|

3. Coviello's Landscaping

\$20,000.00 for 2014

\$15,000.00 for 2015

\$15,000.00 for 2016

\$15,000.00 for 2017

\$15,000.00 for 2018

\$15,000.00 for 2019

|                                |                    |
|--------------------------------|--------------------|
| <u>Total costs for 3 years</u> | <u>\$50,000.00</u> |
|--------------------------------|--------------------|

|                                |                    |
|--------------------------------|--------------------|
| <u>Total costs for 6 years</u> | <u>\$95,000.00</u> |
|--------------------------------|--------------------|

The Engineering Department reviewed the proposals with the following findings:

- The first lowest proposer should be disqualified as they did not attend the **mandatory** pre-proposal location tour.
- The second proposer should be disqualified as they did not attend the **mandatory** pre-proposal location tour.
- The third lowest proposer, Coviello's Landscaping, did attend the mandatory location tour.

A proposal summary form is provided in the attached.

It should be noted that the Town Board recently awarded Coviello's landscaping the Carmel Sewer District # 2 Easement Maintenance contract. The work performed by Coviello's landscaping was performed to the satisfaction of the Engineering Department. Therefore, based upon the above, the Engineering Department recommends that this contract be awarded to Coviello's Landscaping, as the lowest conforming submittal, for three (3) years at the above stated prices

Mary Ann Maxwell provided the attached indicating that the 2014 budget is \$15,000 for the cutting and the difference in cost can be transferred from the contingency line.

I therefore respectfully request that the Board placed on your next Town Board work session agenda. Should the Board have any questions, please don't hesitate to contact my office.



## BID OPENING RESULTS

RFP/Contract Title: Land Fill Maintenance.

RFP # 2014-004

Opened by: \_\_\_\_\_

Contract # \_\_\_\_\_

Recorded by: \_\_\_\_\_

[illegible]

PROPOSAL SUBMISSION SHEET  
R2014-0004  
LANDFILL MAINTENANCE CONTRACT

a. Amount Bid for 2014 cutting \$ 20,000

Twenty thousand dollars  
(Amount Bid in Words)

b. Amount Bid for 2015 cutting \$ 15,000

Fifteen thousand dollars  
(Amount Bid in Words)

c. Amount Bid for 2016 cutting \$ 15,000

Fifteen thousand dollars  
(Amount Bid in Words)

d. Amount Bid for 2017 cutting \$ 15,000

Fifteen thousand dollars  
(Amount Bid in Words)

e. Amount Bid for 2018 cutting \$ 15,000

Fifteen thousand dollars  
(Amount Bid in Words)

---

f. Amount Bid for 2019 cutting

\$ 15,000

Fifteen Thousand dollars

Submitted By: Christopher Coviello, Coviello's Landscaping

Title: Owner

Applicants Legal Address:

65 Everett R.D Carmel NY 10512

  
Signature

5/6/14  
Date

PROPOSAL SUBMISSION SHEET  
R2014-0004  
LANDFILL MAINTENANCE CONTRACT

a. Amount Bid for 2014 cutting \$ 16,000.

Sixteen thousand dollars  
(Amount Bid in Words)

b. Amount Bid for 2015 cutting \$ 16,100.

Sixteen thousand one hundred dollars  
(Amount Bid in Words)

c. Amount Bid for 2016 cutting \$ 16,200.

Sixteen thousand two hundred dollars  
(Amount Bid in Words)

d. Amount Bid for 2017 cutting \$ 16,500.

Sixteen thousand five hundred  
(Amount Bid in Words)

e. Amount Bid for 2018 cutting \$ 16,600.

Sixteen thousand six hundred  
(Amount Bid in Words)

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f. Amount Bid for 2019 cutting

\$ 16,800. -

Sixteen thousand eight hundred

Submitted By:

Quality Welding Fab Inc

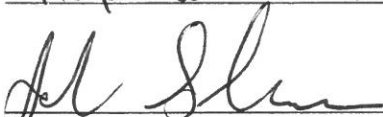
Title:

John Schneider  
CEO

Applicants Legal Address:

14 Pierce Arrow Road

Hope Well NY 12533

  
Signature

5-3-14  
Date

PROPOSAL SUBMISSION SHEET  
R2014-0004  
LANDFILL MAINTENANCE CONTRACT

a. Amount Bid for 2014 cutting \$ 5,500

five - thousand - five hundred  
(Amount Bid in Words)

b. Amount Bid for 2015 cutting \$ 5,500

five thousand - five hundred  
(Amount Bid in Words)

c. Amount Bid for 2016 cutting \$ 5,500

five thousand - five hundred  
(Amount Bid in Words)

d. Amount Bid for 2017 cutting \$ 5,500

five thousand - five hundred  
(Amount Bid in Words)

e. Amount Bid for 2018 cutting \$ 5,500

five thousand - five hundred  
(Amount Bid in Words)

---

f. Amount Bid for 2019 cutting \$ 5,500

five thousand- five hundred

Submitted By: Ryan Gertsen / Gertsen Landscaping

Title: President / CEO

Applicants Legal Address:

18 Lakeview Road  
Carmel NY 10512

  
Signature

04/14/14  
Date

**From:** [Maxwell, Mary Ann](#)  
**To:** [Franzetti, Richard](#)  
**Cc:** [Vara, Rob](#); ["John Folchetti"](#); [Schmitt, Kenneth](#)  
**Subject:** RE: 03-24-14 - 2014 Landfill Budget questions  
**Date:** Monday, March 24, 2014 1:11:28 PM

---

Supervisor Schmitt asked me about this last week. There is \$22,500 budgeted in this line. It looks like we are approximately \$6,000 short. If I recall correctly we budgeted \$15,000 for the cutting and \$8,500 for the monitoring. For now we can transfer the \$6,000 from the contingent line.

Mary Ann

---

**From:** Franzetti, Richard  
**Sent:** Monday, March 24, 2014 9:25 AM  
**To:** Maxwell, Mary Ann  
**Cc:** Vara, Rob; 'John Folchetti'  
**Subject:** 03-24-14 - 2014 Landfill Budget questions

Max

Can you please help me determine if there are sufficient funds to support two (2) Regulatory Mandated projects at the Landfill? The projects are:

1. Monitoring – Cost for 2014 \$8,200. This service is a continuation of the contract with Zion Environmental. The cost is based on a February 2014 proposal.
2. Landfill Maintenance – Cost for 2014 is \$20,000. This cost is based on the response by lowest responsible proposer for the Engineering Department request for proposal - R2104-0004. Per the RFP this work will need to be performed between May 15 and June 15 with payment due upon completion of the cutting event. The RFP indicated that the contract will be effective for 3 years. Cost per year is \$20,000.

Please let me know

Richard J. Franzetti. P.E, BCEE, LEED <sup>AP</sup>  
Town Engineer  
60 McAlpin Avenue  
Mahopac, New York 10541  
Phone - (845) 628-1500 ext 181  
Fax – (845) 628-7085  
Cell – (914) 843-4704  
[rjf@ci.carmel.ny.us](mailto:rjf@ci.carmel.ny.us)

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**RESOLUTION ACCEPTING PROPOSAL  
FOR LANDSCAPING AND MAINTENANCE SERVICES  
TOWN OF CARMEL LANDFILL**

WHEREAS, Town Engineer Richard Franzetti has solicited proposals for the performance of landscaping/maintenance services for the Town of Carmel Landfill; and

NOW THEREFORE BE IT RESOLVED, that the Town of Carmel Town Board hereby accepts the proposal of Coviello Landscaping, Carmel, NY for the performance landscaping and maintenance services for the Town of Carmel Landfill for a three (3) year term at an annual cost not to exceed \$20,000 (TWENTY THOUSAND DOLLARS) for the initial year and not to exceed \$15,000 (FIFTEEN THOUSAND DOLLARS) per year for the second and third years;

BE IT FURTHER RESOLVED, that upon presentation of insurance certificates in form acceptable to Town Counsel, Town Supervisor Kenneth Schmitt is hereby authorized to execute any and all documentation required to formalize the acceptance of said proposal on the terms authorized herein.

Resolution

Offered by: Councilwoman McDonough

Seconded by: Councilman Schneider

| <u>Roll Call Vote</u> | <u>YES</u>    | <u>NO</u>     |        |
|-----------------------|---------------|---------------|--------|
| Jonathan Schneider    | <u>X</u>      | <u>      </u> |        |
| John Lupinacci        | <u>      </u> | <u>      </u> | Absent |
| Suzanne McDonough     | <u>X</u>      | <u>      </u> |        |
| Frank Lombardi        | <u>X</u>      | <u>      </u> |        |
| Kenneth Schmitt       | <u>X</u>      | <u>      </u> |        |

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I, Ann Spofford, Town Clerk of the Town of Carmel, Putnam County, New York, do hereby certify that the foregoing resolution is a true and exact copy of the original on file in my office which was adopted by the Town Board of said Town at a duly called and held meeting on the 21<sup>st</sup> day of **May, 2014**; and of the whole thereof.

May 22, 2014  
Dated

Ann Spofford  
Ann Spofford, Town Clerk

**From:** [coviellolandscape@yahoo.com](mailto:coviellolandscape@yahoo.com)  
**To:** [Franzetti, Richard](#)  
**Subject:** Re: 08-22-16 Landfill Maintenance Proposal  
**Date:** Monday, August 22, 2016 12:32:39 PM

---

Good morning Rich, I would like to renew my contract.

Thank you  
Chris Coviello  
Coviello's Landscaping  
(845) 222-7128

On Aug 22, 2016, at 12:23 PM, Franzetti, Richard <[rjf@ci.carmel.ny.us](mailto:rjf@ci.carmel.ny.us)> wrote:

Chris,

Based on our conversation earlier today, per the attached RFP the Town of Carmel has the "... unilateral option to renew the contract for up to three more years or any portion thereof. Contractor shall provide pricing for the years 2017, 2018 and 2019."

Per your proposal submission (see attached document entitled *05-08-14 R2014-0004-Recommendation to TB.pdf*) you provided the price of \$15,000 per year for years 2017, 2018 and 2019.

Please advise if you are interested in continuing the Landfill Maintenance under the contract terms identified in the attached.

Thanks

Richard J. Franzetti. P.E, BCEE, LEED <sup>AP</sup>  
Town Engineer  
60 McAlpin Avenue  
Mahopac, New York 10541  
Phone - (845) 628-1500 ext 181  
Fax – (845) 628-7085  
Cell – (914) 843-4704  
[rjf@ci.carmel.ny.us](mailto:rjf@ci.carmel.ny.us)

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**From:** [Maxwell, Mary Ann](#)  
**To:** [Franzetti, Richard](#)  
**Subject:** RE: 08-23-16 Landfill Maintenance  
**Date:** Friday, August 26, 2016 9:10:56 AM

---

Yes if contract and resolution is approved for years 2017, 2018, 2019 it will be include in those years budgets. It is currently included in this years budget.

*Mary Ann Maxwell*  
Town Comptroller  
Town of Carmel  
(845) 628-1500 ext 175  
Fax (845) 628-7085  
[mam@ci.carmel.ny.us](mailto:mam@ci.carmel.ny.us)

---

**From:** Franzetti, Richard  
**Sent:** Tuesday, August 23, 2016 9:17 AM  
**To:** Maxwell, Mary Ann  
**Subject:** 08-23-16 Landfill Maintenance

Mary Ann,

Do we have sufficient fund to perform maintenance at the landfill? Cost is \$15,000 per year for years 2017, 2018 and 2019.

See attached.

Thanks

Richard J. Franzetti. P.E, BCEE, LEED <sup>AP</sup>  
Town Engineer  
60 McAlpin Avenue  
Mahopac, New York 10541  
Phone - (845) 628-1500 ext 181  
Fax – (845) 628-7085  
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Richard J. Franzetti, P.E.  
Town Engineer




(845) 628-1500  
(845) 628-2087  
Fax (845) 628-7085

**Office of the Town Engineer**  
60 McAlpin Avenue  
Mahopac, New York 10541

## MEMORANDUM

---

**To:** Carmel Town Board

**From:** Richard J. Franzetti P.E. Town Engineer 

**Date:** August 31, 2016

**Re:** C 225- Sludge Hauling- Various Sewer Districts – Proposed contract extension

---

As the Board is aware, in 2014, the Town of Carmel received public bids for Sludge Hauling for various sewer districts. The contract was awarded to Residuals Management Services. The contract term was one (1) year commencing on July 23, 2014 and ending on July 23, 2015. The contract provided for the unilateral option of two (2) - one (1)-year extensions.

Residuals Management has continued to service the Town and has performed adequately. Based upon the above, we recommend that the Town exercise its option and extend the contract for two (2) - one (1) - year periods. The first extension would be from July 23, 2015 to July 23, 2016 (retroactive). The second extension would be from July 23, 2016 to July 23, 2017. There is no cost escalation provision in the contract, so pricing would remain the same.

I respectfully request that this matter be placed on the next available work session for discussion.

From: [Suzanne McDonough](#)  
To: [Carnazza, Mike](#)  
Cc:  
Subject: Re: Code Correction  
Date: Thursday, September 01, 2016 12:33:02 PM

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Good Afternoon everyone:

I saw this in my e-mail.

Can we place this on the September 14th work session agenda?

Thanks

*~Suzi McDonough*

On Fri, Jul 8, 2016 at 9:21 AM, Carnazza, Mike <[mgc@ci.carmel.ny.us](mailto:mgc@ci.carmel.ny.us)> wrote:

All,

While reviewing the code, Pat Cleary questioned the necessity of section 156-28. The Schedule of District Regulations no longer allows Multi Family Dwellings unless they are existing and the R-MF and R-MFA zoning districts no longer exist.

It is my recommendation that this section be deleted or at least amended .

Below is a copy of the Section.

Thank you,

§ 156-28

Multifamily developments.

A. In R Residential Zones, multifamily developments and their on-site accessory uses for parking and recreation shall be permitted as a garden apartment design or townhouse design, provided that:

- (1) The site of the development shall be at least 10 acres.
- (2) The maximum permitted density shall not exceed five units per acre in a **R-MF** and 3.4 units per acre in an **R-MFA** Zone.

(3) For each housing unit there shall be provided a minimum of two on-site parking spaces as defined in this chapter. However, for multifamily developments (nonapartment) that are designated for occupancy by the elderly exclusively, there shall be a minimum of 1.5 on-site parking spaces for every dwelling unit. No parking space shall be located in a front setback area or within 10 feet of any side or rear lot line.

[Amended 5-31-1984; 10-21-1998 by L.L. No. 9-1998; 9-20-2006 by L.L. No. 5-2006]

(4) The building height shall not exceed 35 feet.

(5) Coverage of the lot by buildings shall not exceed 30%.

(6) There shall be a distance of at least 50 feet between all buildings.

[Amended 12-18-1985]

(7) No building shall exceed a length of 200 feet.

(8) There shall be a perimeter building setback area of at least 100 feet on all sides of the site.

(9) A total of not less than 300 square feet per dwelling unit shall be improved with recreational facilities, such as swimming pools, tennis, basketball and other court games, playground or other recreational equipment for the use of the residents of the site and their guests. Such facilities shall not be operated for profit.

(10) In addition to the required 300 square feet per dwelling unit which shall be provided for recreational facilities for use by the residents of the site, the applicant shall pay to the Town of Carmel an amount to be established annually by the Town Board and on file in the office of the Town Clerk, for each dwelling unit shown on the site plan prior to the issuance of the certificate of occupancy. This amount shall constitute a trust fund to be used by the Town exclusively for park, playground or other recreational purposes, including the acquisition of property.

[Amended 11-26-1986]

(11) A landscaped buffer area of at least 10 feet in width shall be provided along all property lines and around all parking areas. Such buffer planting shall be maintained at a height of at least four feet to satisfactorily screen the parking area.

(12) No multifamily development in a R District shall contain more than 150 dwelling units.

(13) Adequate water supplies shall be made available the entire year for fire protection purposes. These sources may be pressured systems, cisterns or dry hydrants. The quantity available must meet NFPA Standard 1231 entitled "Standard on Water Supplies for Suburban and Rural Fire Fighting," primarily Tables 5-1.1(a) and (b). All water supply distribution points shall be readily accessible and so located that the maximum travel distance for fire-fighting apparatus shall not exceed 1,000 feet from distribution point to farthest delivery point.

[Added 12-18-1985]

B. An existing dwelling in an R Zone may be converted to multifamily use, provided that:

- (1) The building has a total floor area of at least 2,000 square feet.
- (2) Each dwelling unit in the building shall have at least 500 square feet of floor area.
- (3) The site is at least 20,000 square feet.
- (4) At least one parking space, as defined in this chapter, shall be provided for each dwelling unit.
- (5) The building shall comply with all applicable fire and building codes.
- (6) Adequate water supplies shall be made available the entire year for fire protection purposes. These sources may be pressured systems, cisterns or dry hydrants. The quantity available must meet NFPA Standard 1231 entitled "Standard on Water Supplies for Suburban and Rural Fire Fighting," primarily Tables 5-1.1(a) and (b). All water supply distribution points shall be readily accessible and so located that the maximum travel distance for fire-fighting apparatus shall not exceed 1,000 feet from distribution point to farthest delivery point.

[Added 12-18-1985]

C. Office facilities specifically designed for use by the medical profession shall be permitted in the R Residential Zone located at Drewville Road and Stoneleigh Avenue.

[Amended 3-20-2002 by L.L. No. 1-2002]

Michael Carnazza

Director of Code Enforcement

Building Inspector

Town of Carmel

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§ 156- Coops and attached runs for Chickens.

A. A coop for housing chickens and an attached run shall be permitted as an accessory use to a permitted principal residential use and shall be located on the same site therewith. Roosters are prohibited.

B. No coop or run shall be located on a lot having less than 20,000 square feet in area and may only house 6 chickens per 20,000 square feet.

C. Coops and runs may not be located in any front yard as defined in this chapter. Coops and runs shall be situated completely in a side or rear yard, at least 15 feet from all rear and side property lines.

D. All coops must be movable structures for purposes of cleaning and re-locating within the allowable setbacks.

E. All coops and runs must be maintained in a clean and sanitary manner and in compliance with all state and local laws pertaining to animals generally;

F. All coops and any attached run shall be screened from view at ground level from adjacent lots by using 4 ft. to 6 ft. fencing, landscaping, or a combination thereof.

G. All feed shall be kept in rodent-proof containers.

H. Penalties for offenses.

1. Any person or entity who shall violate any of the provisions of this chapter shall be guilty of a violation and shall be punished as follows:

(1) For a first offense: by a fine not to exceed \$50.

(2) For a second offense: by a fine not to exceed \$100.

(3) For a third offense or any subsequent offenses: by a fine not to exceed \$200 or removal of chickens, coop, and run from said premises, or by both such fine and cessation of use.

(4) Each violation of any provision of this chapter and each week that each such violation shall continue shall be deemed to be a separate and distinct offense.

(5) In addition to the above provided penalties and punishment, the Town may also maintain an action or proceeding in a court of competent jurisdiction to compel compliance with or to restrain by injunction any violation of this chapter.