

DEPARTMENT OF WATER

CITY OF SYRACUSE, MAYOR BEN WALSH

July 6, 2020

Joseph Awald, PE Commissioner

John Walsh Deputy Commissioner New York State Department of Environmental Conservation Division of Environmental Permits 625 Broadway, 4th Floor Albany, NY 12233-1750

New York State Department of Environmental Conservation Bureau of Water Permits 625 Broadway, 4th Floor Albany, NY 12233-3505 NYSDEC

JUL 28 2020

Division of Environmental Permits

Re: <u>City of Syracuse Department of Water</u>

Application for SPDES Permit to

Discharge a Pesticide Labeled for Aquatic Use.

To whom it may concern:

Enclosed please find the City of Syracuse Department of Water's (the "City") Application for State Pollution Discharge Elimination System ("SPDES") Permit to Discharge a Pesticide Labeled for Aquatic Use (the "Application"). The City seeks approval to apply a product known as EarthTec within a portion of Skaneateles Lake (the "Lake"), as needed, to suppress the growth of cyanobacteria within the Lake, which serves as the City's potable water supply.

The following materials are enclosed to assist the NYSDEC with its review and processing of the Application:

- SPDES Permit application form and supporting materials
 - o Detailed maps (Section 4);
 - o EarthTec pesticide label (Section 6);
 - o a summary of the City's monitoring plan (Section 8);
 - o draft notice letter; and
- SEQRA full environmental assessment form, Part 1.

Department Of Water Skaneateles Lake Watershed Protection Program

20 W. Genesee Street Skaneateles, NY 13152

Office 315 448-8366

Based on prior discussions with NYSDEC representatives, the City was advised that certification of notice to riparian owners pursuant to Section 9 of the Application was not required at this time. Instead, the City was requested to provide only the enclosed draft notice letter for review, with the understanding that if the Application

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is approved and the application of EarthTec is planned, appropriate notice will be coordinated with NYSDEC at that time.

Additionally, in accordance with the requirements of the State Environmental Quality Review Act ("SEQRA"), the City wishes to assume the role of lead agency concerning the environmental review concerning the Application. We have enclosed a lead agency consent request letter for your review and execution.

Thank you for your attention to this matter. Please contact me if you have any questions or require further information.

Very truly yours,

Joe Awald, Commissioner

Enclosure



New York State Department of Environmental Conservation
Division of Water – Bureau of Water Permits
Application for State Pollution Discharge Elimination System
(SPDES) Permit to Discharge a Pesticide Labeled for Aquatic Use

SUBMIT THE APPLICATION 3 MONTHS BEFORE THE PROPOSED TREATMENT REFER TO THE ATTACHED APPLICATION INSTRUCTIONS

	PERMIT APP				Site	
Name of Permit Applicant/Association/Agency: City	of Syracuse Dep	artment of Wa	ter			
Name of Authorized Person signing the Application: (if on behalf of an Association/Organization) Rich Abbott						
Mailing Address: 20 West Genesee Str	eet					
City: Skaneateles		State:		Z	Zip Code: 13152	
Telephone Number: 315 263-9254		bbott@syrgov.i			Vebsite: syrgov.net	
2. PE	STICIDE API	PLICATOR I	NFORM	IATIO	N	
Name of Pesticide Business/Agency performing application (if applicable):	TBD					
Business/ Agency Registration Number:	Telephone Number:			Cont	act:	
Business Mailing Address:						
City:		State:		Z	Zip Code:	
Email:		Website:				
Name of Certified Applicator(s) performing application: Certified Applicator(s) Identification Number:						
Mailing Address: (if different than Business Address)						
City:	State:	Zip Code	:		Telephone Number:	

3. WATER BODY INFORMATION											
Name of water body:	Skaneateles Lak	ке					vater cl Class A				Α
Address or location of water body:	on Finger Lakes F	Region									
County where Onondaga, Cayuga & Town where water body is located: Cortland water body is located: Skaneateles, Spafford, Niles, Sempron					onius, Scott						
Are fish present?	Yes X	No 🗆	Are fish	n stock	ked?			Yes	X	No	
If fish are presen	nt, see the Instr	uctions for S	Section #	#3 .							
Are there any reg proposed treated		r or tidal wet	lands as	sociat	ed with t	he		Yes	X	No	
Do application site	es include lands	under the co	ntrol of t	he DE	C?			Yes	X	No	
If Yes, please specify:	Skaneateles Lak	e (see attached	map)								
Total water body size in acres:	8,704	Average depth in fee	t: 145		Latitude Longitu		42.	86043°	N, -76	.36391° E	
Water body uses	(Check all tha	t apply):									
Swimming X	Irrigation 🗵	Livestock watering			ble X		Dome: water			Fishin	g X
Other uses (list)											
	4. A DETAILE	MAP MUST	T BE INC	CLUDI	ED WITH	HTHI	S APPI	LICAT	ION		
 The exact map scale size and average depths of the water body. The outline and average depths of the application site(s), with all streams/treated sites/catch basins clearly identified. Inlets and outlets to the water body. (if the applicant can't control the outflow, also include the downstream watershed map information for Attachment D - Downstream Modeling) Location of known designated bathing sites, livestock watering sites, water intakes, public lands contiguous to the water body, public boat launches and any other features relevant to the application. Wetlands contiguous to the water body. 											

	5. WATER BODY APPLICATION INFORMATION				
Whole or Partial Water	r Body Application:				
Total number of application sites:	1				
Surface acres of each application site:	568				
Total application area in surface acres:	568				
Average depth of each application site:	15 ft.				
Total number of acre feet:	8520				

(A COMPLET	E PESTICIDE	LABEL MUST BE ATTACHED TO THE APPLICATION)
Pesticide name:		EarthTec
Pesticide active ingredient	:	Copper Sulfate Pentahydrate (CAS no. 7758-99-8)
% Active Ingredient:		19.8%
Pesticide EPA Registration	n Number:	64962-1
Formulation:		Copper Sulfate Pentahydrate 19.8%, Inert Ingredients 80.2%
Application rate: (e.g. gals/acre ft. or gals/s	urface acre)	0.16 gals/acft - 1.0 gals/acft
Dosage rate: (e.g. ppm, ppb)		.03 ppm Cu18 ppm Cu
Total number of application (including bump/split application)		1 - 2
Approximate date(s) of application (including bump/split application)	cations)	July - September 2020
Amount of pesticide needed per application:		up to 3,408 gallons (@ 1.0 gals/acft & 6 ft. target depth)
Total amount of pesticide needed per calendar year:		up to 3,408 - 6,816 gallons / year
Target pest: (scientific and common na		Cyanobacteria (Blue-green algae)
Method of application (e.g. on surface, bag dragged b	ehind boat):	Subsurface Injection
If the proposed application an aircraft, indicate FAA N	lumber(s):	
List all the applicable wate water quality standards.		ons as stated on the label/SLN, in 6 NYCRR 327.6, or the applicable
Swimming	No restriction	s
Irrigation	No restrictions	
Livestock watering	No restriction	ns
Potable water uses	No restriction	ns
Domestic water uses	No restriction	ns
Fishing	No restriction	
Other toxing released cyanopacteria cyanopacteria	o impact from anobacteria kins released	 The purpose of EarthTec treatments is to mitigate risks (e.g., cyanotoxins) associated with increasing cyanobacteria densities. EarthTec treatment will not be initiated unless microcystin is detected in the City of Syracuse raw water intakes (> 0.3 ug/L), indicating that microcystin is present from naturally occurring cyanobacteria.

toxins released toxins released (> 0.3 ug/L), indicating that microcystin is present from naturally occurring cyanobacteria.

Two main factors that have been shown to affect toxin production are light and temperature (Cyanobacterial toxins: microcystin-LR in Drinking-water (World Health Organization 2003)

Microcystin concentrations in water are generally positively correlated with algal cell density (Chorus and Bartram, 2000; Zohary and Paris Madeira, 1990). Therefore allowing microcystin producing algae to grow unmanaged can result in increased total microcystin and consequently increased risk (Iwinski et al., 2015).

Cyanobacteria are often more sensitive to copper-based algecide exposures than non-target algae and aquatic animals (Calomeni et al., 2014; Geer et al., 2016), demonstrating a selective approach for mitigating risks from HABs in water resources.

Microcystin can be subject to biodegradation following algaecide exposures, with half-lives on the order of days (lwinski et al., 2017) providing a relatively rapid transformation pathway for decreases in microcystin concentration and potential risks (Kinley et al., 2017).

04/2019: SPDES Pesticide Indiv. App.

Exposures to copper concentrations registered for use (i.e., 0.1 - 1.0 mg Cu L -1 as Cutrine-Plus and Algimycin-PWF) did not influence microcystin-LR Tot degradation compared to untreated controls (lwinski et al., 2017)

8. SUPPLEMETAL DOCUMENTATION				
Includ	e information requested below with the application			
1.	 Monitoring Plan – Pre and Post Application The procedures the applicant will follow prior to making the determination an application is needed, including: a. whether confirmation of conditions requiring treatment will be based on monitoring data (and if so, details of the monitoring plan, including how and when initiated, sampling frequency and locations, etc.) b. which metrics (qualitative and/or quantitative) are used to determine the need to treat (and the basis for the choice of that metric), including verification of cyanobacteria taxa, quantification of blooms, and toxins analyses; c. how treatment area will be delineated based on conditions at the time of proposed treatment d. post treatment monitoring (procedures/indicators) to evaluate potential public health or environmental risk and identify when regular lake/waterbody use is restored 			
2.	 Proposed public outreach efforts that will be followed before and after an application, including a. Shorefront property owners engagement, through development and submittal of an EAF b. Riparian notification of treatment, consistent with the requirements of the Bureau of Pest Management Application for a Permit to Use a Pesticide For the Control of an Aquatic Pest (form AQV(11/2016)); c. Notification of any testing results indicating issues related to public or environmental health, including cyanotoxin levels 			

9. CERTIFICATION OF NOTIFICATION OF RIPARIAN OWNERS AND USERS						
The applicant must complete and sign the Certification of Notification of Riparian Owners and Users below.						
	iparian owners/users to whom the notification letter was sent must					
accompany this application. Check all appro	accompany this application. Check all appropriate statements:					
	the body of water proposed to be treated pursuant to this					
	ed to this application, have been notified by letter of the proposed					
	property owners abutting the outflow from this body of water, if the					
	I water body for the period of time during which use of water is					
restricted. Such letters were mailed	or personally delivered on//. A copy of the letter is					
attached.						
	perty tax records indicates that no person other than the applicant					
owns any real property abutting the	water body proposed to be treated.					
A person(s), not owning abutting rea	al property, possesses vested legal right to use the water body					
	rsons, and the nature of their right to use of the water proposed to					
be treated is attached. Such letters	were mailed or personally delivered on//. A copy of the					
letter is attached.						
	than the applicant possesses any vested legal right to use the					
water body treated pursuant to this application.						
Name:	If Applicant is not an individual,					
include the title of signatory:						
Signature: Date:						

10. AFFIRMATION:

The applicant/applicator guarantees that they will employ the listed pesticides in conformance with all conditions of the permit and agrees to accept the following conditions as a prerequisite to the issuance of a permit: that the issuance of the permit is based on the accuracy of all statements presented by the applicant/applicator; that damage resulting from the inaccuracy of any computations, improper application of the pesticide, or legal responsibility for the representations made in obtaining approvals or releases, or the failure to obtain approvals or releases from the riparian owners/users likely to be affected is the sole responsibility of the applicant/applicator.

I hereby affirm under penalty of perjury that information on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class "A" misdemeanor pursuant to Section 210.45 of the Penal Law.

Signature of Permit Applicant or Representative:	Title	Date:
friely artist	Watershed Quality Coordinator	7/6/2020
Signature of Certified Applicator:	Title	Date:

11. NOTES

ENVIRONMENTAL HAZARDS 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 this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated area. Certain water conditions including low pH (<6.5), low dissolved organic carbon levels (3.0 mg/L or lower) and soft waters (i.e. alkalinity <50 mg/L) increases the potential acute toxicity to non-target aquatic organisms. The application rates on this label are appropriate for water with alkalinity greater than 50 mg/L. Do not use these application rates for water with less than 50 ppm alkalinity (e.g. soft or acid waters) because trout and other species of fish may be killed under such conditions.

The EarthTec treatment area includes a 750 ft wide section extending from near-shore to open water within the North Basin of Skaneateles Lake. The total treatment area is 568 acres. The width of the North Basin ranges from approximately 2,500 ft. to 5,900 ft. The surface area of Skaneateles Lake 8,704 acres. Since the treatment area is approximately 1/15th of the lake surface area, fish can move readily to untreated areas. Dissolved oxygen levels will also not be negatively effected due to the ratio indicated above (Skaneateles Lake volume is estimated at 412 billion gallons). Skaneateles Lake water quality parameters include; pH 7.92 - 8.42 (daily avg. Aug. & Sept 2018) and alkalinity (100 mg/L), significantly above water conditions indicated on the EarthTec label. Hypolimnetic DO concentrations were relatively constant throughout the 2017 season ranging from 12.4 mg/L in May to 10.7 mg/L in September Water Quality and Limnological Monitoring for the Skaneateles Lake: Field Year 2017, Upstate Freshwater Institute.

INSTRUCTIONS TO COMPLETE FORM SPDES Pesticide Indiv. App.

A State Pollutant Discharge Elimination System (SPDES) permit for a point source discharge of a pollutant to, in, or over the waters of the State of any New York State registered pesticide that is labeled for aquatic uses, including both biological and chemical pesticides that leave a residue, must be obtained in accordance with Section 402 of the Clean Water Act (CWA) for point source discharges to waters of the United States and the rules and regulations of the State of New York in Parts 750-1.4 of Title 6 New York Code of Rules and Regulations (6 NYCRR), The following numbered directions correspond to the numbered blocks on the "Application for a SPDES Permit to Discharge a Pesticide Labeled for Aquatic Use" form. Please read the instructions carefully and complete the application form accordingly.

Completed applications with all requested attachments must be submitted at least 3 months before the proposed pesticide application date to provide the DEC with sufficient time for application review. If all the information is not provided, or if the information is not correct, the application will be incomplete and returned to the applicant for correction. Application review may not begin until a signed, complete, original application has been received by the DEC. Additional copies may be needed as determined by DEC Regional offices.

It is the responsibility of the applicant to determine if any other permit is needed prior to making a pesticide application.

The applicant must notify the Regional DEC Pest Management staff 7-14 days prior to the actual pesticide application to the water body. For permits requiring water use restrictions, the Regional Pest Management staff must also be notified within 24 hours after the application (or the first business day following the application for Friday, weekend or holiday applications). In addition, the applicant must allow the Regional Pest Management staff access to the water body and the ability to observe the pesticide application. The applicant must also give notice of the proposed date to the appropriate Regional, State or County Department of Health 7-14 days prior to the application, where the water body or outflow waters serve as water supplies.

1. PERMIT APPLICANT INFORMATION

The name of the permit applicant proposing the application must be provided. The applicant is the person /entity:

- a. with control over the decision to perform pesticide applications authorized by the SPDES permit that results in a discharge to surface waters of the State; OR
- b. who performs the application of a pesticide authorized by the SPDES permit or who has day to day control of the application that results in a discharge to surface waters of the State.

If the application is being prepared for an organization, association or an agency, the applicant should be the organization/agency. If the entity is incorporated, please use the name registered with the NYS Division of Corporations. If the applicant is not an individual, please provide the name of the person authorized to submit the application for the organization. **NOTE:** The individuals signing the application must be the individuals identified on the application form. The application must be signed by an authorized individual, such as a riparian owner, an authorized representative of a lake association, or an authorized agency employee.

Check the appropriate block to identify whether the applicant is a riparian owner or lessee, or an organization, agency, or other entity.

2. PESTICIDE APPLICATOR INFORMATION

Please provide the certified applicator information as identified on the application. Attach a list of certified applicators, if necessary. If applicable, provide the name and address, registration number and website/e-mail information of the Pesticide Business/Agency conducting the pesticide application.

3. WATER BODY INFORMATION

If fish are present, list the related application requirements specified on the label and explain how you will comply with these requirements. Place the information in the Notes Section #11 of the permit application or attach documentation. Examples of these requirements, typically found in the Environmental Hazards portion of the pesticide label, include but are not limited to: determining water hardness, dissolved oxygen, pH, and/or alkalinity; and prohibitions when Koi or sensitive fish species are present.

Except in the Adirondack Park, where the Adirondack Park Agency (APA) administers the Freshwater Wetlands Act, under the ECL Article 24 Freshwater Wetlands Act and the ECL Article 25 Tidal Wetlands Act, the Division of Environmental Permits in DEC regulates activities, including pesticide applications, in freshwater and tidal wetlands, and in their adjacent areas. Contact the DEC Regional DEP staff or the APA if you have any questions about obtaining a wetlands permit.

The Environmental Resource Mapper, found at the Department website at: http://www.dec.ny.gov/animals/38801.html, is an interactive mapping application that can be used to identify some of New York State's natural resources and environmental features that are state protected, or of conservation concern. Currently included on the maps are locations of:

- Freshwater wetlands regulated by the State of New York (outside the Adirondack Park). Contact the Adirondack Park Agency for wetlands within the Adirondack Park.
- New York's streams, rivers, lakes, and ponds;
- Water quality classifications.
- Animals and plants that are rare in New York, including those listed as Endangered or Threatened (generalized locations).
- Significant natural communities, such as rare or high-quality forests, wetlands, and other habitat types.

Indicate if any of the application sites include lands under the control of the DEC. Such applications of pesticides require authorization from the DEC Division having jurisdiction. The permit will not be valid for such waters unless signed by the Director of the Division (or designee) in the area provided for this authorization.

4. DETAILED MAP

A copy of relevant portion of the 7 $\frac{1}{2}$ U.S.G.S. quadrangle map containing the water body or stream(s) proposed for application must be attached. In addition, an expanded scale drawing showing in detail, including but not limited to, the following features of the application sites (if necessary, more than one such drawing should be submitted).

- A detailed map of the water body, with outlines of the weed beds, and outlines of site(s) proposed for application, or a diagram of all streams/surface acreage/catch basins proposed to be treated. All sites to be treated must be clearly identified. Be sure to include map scale.
- Length of shoreline in proposed application site(s) in feet; or length of target stream(s) proposed for application in feet.
- Width of proposed application site(s) outward from the shore (in feet).
- Depth soundings in site(s) proposed for application and their location(s). Information must be sufficient
 to determine correct pesticide application dosage if calculation is based upon the volume of water to be
 treated.
- Inlet and outlet streams, and location of any outflow control devices.
- Names and locations of known public and private water supply intakes, livestock watering sites, bathing sites, public boat launches or public lands in vicinity of the application sites and on the outlet waters.
- Any NYSDEC regulated freshwater or tidal wetland.

5. WATER BODY APPLICATION INFORMATION

For this section, choose the type of application and provide totals for the entire proposed permitted project. More detailed information on individual application dates and application sites may be required on the map or for the next application section.

A. Whole or Partial Water Body Application – Separate the application sites when you are treating ½ the water body at a time even if you propose to treat the entire water body. Provide information for each application site, application date or dosage rate. Enter the totals for the entire proposed permitted project on the form but use the map or separate documentation to identify individual application sites, if necessary.

6. PESTICIDE APPLICATION INFORMATION

Provide the information for each separate pesticide product proposed for application. Only one pesticide product may be requested on each permit application. Each individual application site, date of application, including split and bump applications must be accounted for. Use separate documentation or the map if necessary.

Specify the proposed date(s) of application. These must be the dates contained in the notification notice sent to all riparian owners. If the proposed dates change for any reason, the riparian owner(s) must be re-notified of the date change.

7. WATER USE RESTRICTIONS

List all the water use restrictions as stated on the pesticide product label or accompanying Special Local Need (SLN) labeling.

Consult the DEC regulations in 6 NYCRR 327.6 for specific restrictions on Copper Sulfate, Diquat and 2,4,-D on our website at: http://www.dec.ny.gov/regs/2491.html.

Information on the DEC Water Quality Standards in 6 NYCRR 703 may be found on our website at: http://www.dec.ny.gov/chemical/23853.html

The New York State Department of Health (DOH) maximum contaminant levels (MCL) for public water supplies, including the 50 ppb unspecified organic contaminant (UOC) standard, may be found in Tables on the DOH website at: http://www.health.ny.gov/regulations/nycrr/title 10/part 5/subpart 5-1 tables.htm

8. SUPPLEMETAL DOCUMENTATION

Complete the documentation/ Information requests as described in this section and submit documentation with Application.

For Riparian Owner/User Notification, you must follow the instruction as provided in the Bureau of Pest Management Application For a Permit To Use A Pesticide For The Control of An Aquatic Pest (Form AQV(11/2016), as noted below:

An example of a notification letter, which is specific to only aquatic vegetation control, is attached at the end of this instruction sheet (Attachment A). This suggested letter contains the minimum wording necessary to satisfy riparian owner/user notification. You may add additional information. Certification that these written notices were provided must be completed in Section 11 of the AQV, Certification of Notification of Riparian Owners and Users.

<u>Riparian owners</u> are persons who own property along the shore of the proposed application sites. The ownership of the riparian property surrounding or bordering the waterbody proposed for application must be established, and if there is to be outflow during the restriction period along any outlet, this ownership must also be established.

<u>Riparian users</u> are those users of a waterbody who have a <u>vested</u> right to the use of the waterbody. Examples of such a vested right include a person with deeded access to the waterbody for recreational or other purposes, or a person who has a vested right to withdrawal and use of water from the waterbody.

If there is more than one riparian owner, or if there are one or more vested riparian users, these riparian owners/users must be notified in writing of the application and their right to object.

If there will be outflow of treated waters through lands owned by parties other than the sole waterbody riparian owner, they too must be notified.

Riparian owner/user notification must include:

- The date of the notice.
- Name of Applicant/Association and a contact phone number.
- The purpose of the proposed aquatic pesticide application.
- The pesticide(s) to be used. A copy of the pesticide product label (or the label with <u>only</u> the application directions not relevant to the proposed application deleted) must accompany the letter. According to ECL 33-0905.5, this information may be provided in either a written, digital or electronic form which shall be determined by the recipients.

- The anticipated water use restrictions.
- The date(s) of the proposed application. If application dates change from those stated in the notice or if dates are uncertain, a contact person and phone number with hours of availability must be provided.
- The fact that they may object to the application, how to file an objection, the location of the DEC Regional Office and the contact person where they may register their disapproval of the proposed application.
- The period of time, no more than 21 calendar days, to respond to the DEC if they do not consent to the proposed application.
- A statement that lack of comment will be considered agreement to the application.

By conditions imposed in the permit, the applicant may also be responsible for the posting of notification signs along shorelines, public access points, bathing sites, and swimming sites for notice of fishing, swimming and other restrictions as a result of the pesticide application. In addition, applicants may be required to mark or buoy the sites to be treated prior to application.

9. CERTIFICATION OF NOTIFICATION OF RIPARIAN OWNERS AND USERS

Check the appropriate blocks, and have the authorized individual sign and date. In cases where regulations or label directions require that treated water not be used for a stated period of time, the applicant must submit proof with the application that the water use restrictions can be enforced. The enforcement may occur by either securing consent from riparian owners/users or demonstrating that riparian owners/users will not be significantly adversely impacted.

10. AFFIRMATION

The application must be signed by an authorized individual, such as a riparian owner, an authorized representative of a lake association, or an authorized agency employee. NOTE: The individual signing the application must be the authorized person identified on the application form. Also include the individual's title, if a representative of a lake association or employee of an agency, and the date of endorsement. The Certified Applicator who is actually associated with the pesticide application must sign the application.

MAIL THE COMPLETED APPLICATION AND ATTACHMENTS TO THE FOLLOWING:

 New York State Department of Environmental Conservation Division of Environmental Permits 625 Broadway, 4th Floor Albany, NY 12233-1750

Phone: (518) 408-5476

 New York State Department of Environmental Conservation Bureau of Water Permits 625 Broadway, 4th Floor Albany, NY 12233-3505

Phone: (518) 402-8111

Attachment A: Sample Riparian Owner/User - Notification/ Consent Letter
Date of Notice:
Dear Riparian Property Owner/User:
To control the excessive growth of the aquatic plant species (indicate plant species (indica
species or algae) in (name of water body), the (name of applicant) proposes to conduct an application of the aquatic herbicide(s) (product name).
A copy of the aquatic herbicide label(s) has been attached to this notice.
We anticipate the application to occur on (list all proposed dates) and will proceed only after (applicant name) obtains a permit for the application from the DEC. Prior notification of the exact dates of application will be provided by (posting shoreline, mailing, door to door, etc.).
As an affected riparian owner/user, you have the right to consent or object to the restrictions of water use resulting from the proposed application. The water use restrictions associated with use of the above pesticides are checked below:
Swimming and bathing are prohibited for
Use of water for domestic purposes is prohibited for (Specify)
You have twenty-one (21) days to respond to this notice. If you would like to object to the proposed application(s), you must file a written document stating your objection to the proposed application. Your objection must demonstrate that your use of the water body will be significantly adversely affected.
If you do not respond to this notice, your lack of response will be considered to be consent to the proposed application. If you have any questions on the permitting process, please contact the DEC representative listed above.
Send your objections to the proposed pesticide application to the person listed below:
Name of Contact Person NYS Department of Environmental Conservation (DEC) Region Address Telephone Number
If you would like further information about the pesticide application, or information on the exact dates the pesticide application, please contact the following person:
Name of Contact Person: Telephone Number: Hours Contact Person is Available:

Monitoring Plan - Pre & Post Application

• (a & b) Guidelines for the Application of EarthTec

The City of Syracuse Water Department (City) does not intend to utilize EarthTec as a reactionary measure to a lake-wide algal bloom. The objective is to decrease densities of microcystin producing cyanobacteria. Kinley et al. 2018 demonstrated the benefits of taking actions (utilizing copper-based algaecides) in early growth stages to minimize cyanobacteria densities and microcystin concentrations. Degradation of microcystin-LR occurred at environmentally relevant rates following copper algaecide exposures for mitigation of cyanobacteria blooms. Laboratory and field studies (Iwinski 2016; Iwinski et al. 2017) demonstrated copper algaecide exposures decreased rates of microcystin degradation only when copper concentrations were approx. 5 mg Cu L-1, well in excess of legal application concentrations in the US of 1 mg Cu ^{L-}1. In comparison, copper algaecide exposures of 0.1 through 2 mg Cu ^{L-}1 resulted in similar degradation rates as untreated controls. Both studies provided evidence that the microcystin degradation is unlikely to be impacted by legal copper algaecide concentrations. The maximum concentration proposed for a Skaneateles Lake treatment is significantly below the lowest rate indicated above.

Triggers associated with initiating an EarthTec application by a City selected Commercial Pesticide Applicator (Category 5A –aquatic vegetation) is illustrated below. The primary factor in determining an application is two consecutive days of microcystin detection above 0.3 ug/L (top frame). Declining water quality conditions referenced within the bottom four frames (in advance, throughout, or proceeding the microcystin level threshold), will support initiating an application.



Note:

Pre-treatment monitoring sample quantities and locations will be subject to visual observations of water quality within the North Basin (near-shore and open water). Suspicious bloom reports will be investigated by Syracuse Water Dept. staff and samples collected (when warranted), for microscopic identification.

- (c) Proposed treatment area will not change from Detailed Map (Section 4)
 The proposed treatment area will not exceed that depicted on the map and could be significantly less, depending on visual observations and monitoring results.
 - (d) Post treatment monitoring will commence within 24 hours of treatment and include microcystin sampling and microscopic visual identification within and adjacent to the treatment area. Site specific areas include:
 - Skaneateles Country Club bathing area
 - Village of Skaneateles bathing area
 - Village of Skaneateles Pier
 - NYSDEC Boat Launch

Microcystin samples will be collected daily at the above referenced sites until reported levels are <4 ug/L. In addition, continued scheduled monitoring and sampling will be performed in accordance with the Skaneateles Lake HAB Action Plan for Public Water Supplies (attached).

Proposed Public Outreach

2. (a) Shorefront Property Owners

The City of Syracuse Water Department ("City") has completed and submitted an EAF. Prior to an EarthTec application the NYSDOH, NYSDEC, SLA and elected officials within the five townships in the Watershed will be notified by City personnel. The City continues to fund contractual relationships with Cornell Cooperative Extension of Onondaga County (CCE of Onondaga County) and the Onondaga County Soil and Water Conservation District (Onondaga SWCD). CCE of Onondaga County maintains and updates an electronic listserv which includes 50 local municipal leaders, and watershed residents. Through electronic and verbal communications, mailings and door-to-door handouts, Natural Resources Team Educators, Onondaga SWCD and City staff will notify lakefront residents and property owners prior to an EarthTec application. Public outreach and education will also be a coordinated effort between the City, CCE of Onondaga County, Onondaga County SWCD and the City's selected aquatic pesticide applicator. CCE Onondaga will continue outreach to watershed residents, fire lane and lake associations, and property owners, to add to the existing listserv and expand the reach of the notification system.

2.(b) Riparian Notification of Treatment

(attached find draft Letter of Notification)

2.(c) Notification of Testing Results

Post treatment testing results including microcystin will be posted on the Skaneateles Lake Watershed website and Onondaga County Department of Health website

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:					
EarthTec Application					
Project Location (describe, and attach a general location map):					
North Basin of Skaneateles Lake					
Brief Description of Proposed Action (include purpose or need):					
Brief Description: Suppress cyanobacteria (blue-green algae) in Skaneateles Lake Purpose or Need: Treating the near-shore areas of Skaneateles Lake with EarthTec is design water supplies with Skaneateles Lake source). The primary objective is to keep cyanobacteria as low as possible. The highest levels of microcystin are typically found in areas where there a (particularly when dominated by Microcystis) along the shorelines. High levels of microcystin a microcystin is almost entirely bound within the cells. It is possible that at least a portion of the sediments within the proposed treatment area. Surface shoreline accumulations are transport water intakes. Near shore treatments are designed to minimize the amount of cell bound mic water intakes) and to control blooms in their early stages, preventing large basin wide blooms	a counts and microcystin collected be are dense accumulations of cyanoba are typically found under these condi- ise cyanobacteria are recruited from ted about the lake when the wind ship procystin from moving around the lak	y the City's water intakes cteria biomass tions, and the the relatively shallow fts, and drawn into the			
Name of Applicant/Sponsor:	Telephone: 315 448-8366				
City of Syracuse Department of Water	E-Mail: rabbott@syrgov.net				
Address: 20 West Genesee Street					
City/PO: Skaneateles	State: NY	Zip Code: 13152			
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 315 263-9254				
Rich Abbott	E-Mail: rabbott@syrgov.net				
Address: 20 West Genesee Street					
City/PO:	State:	Zip Code:			
Skaneateles	NY	13152			
Property Owner (if not same as sponsor):	Telephone:				
New York State	E-Mail:				
Address:					
City/PO:	State:	Zip Code:			

B. Government Approvals

B. Government Approvals, Funding, or Spot assistance.)	nsorship. ("Funding" includes grants, loans, ta	ax relief, and any other	forms of financial	
Government Entity	If Yes: Identify Agency and Approval(s) Required	Applicati (Actual or 1		
a. City Counsel, Town Board, ☐ Yes ✓ No or Village Board of Trustees				
b. City, Town or Village ☐Yes ✓No Planning Board or Commission				
c. City, Town or ☐Yes ✓No Village Zoning Board of Appeals				
d. Other local agencies ☐Yes ✓No				
e. County agencies ☐Yes ☑No				
f. Regional agencies ☐Yes ☑No				
g. State agencies ✓ Yes□No	New York State Department of Environmental Conservation - SPDES Permit	March 11, 2020		
h. Federal agencies ☐Yes ☑No				
i. Coastal Resources.i. Is the project site within a Coastal Area, or	or the waterfront area of a Designated Inland W	aterway?	□Yes ☑ No	
ii. Is the project site located in a communityiii. Is the project site within a Coastal Erosion	with an approved Local Waterfront Revitalizan Hazard Area?	tion Program?	☐ Yes No ☐ Yes No	
C. Planning and Zoning				
C.1. Planning and zoning actions.				
 Will administrative or legislative adoption, or a only approval(s) which must be granted to ena If Yes, complete sections C, F and G. If No, proceed to question C.2 and contains the cont		-	□Yes ⊠ No	
C.2. Adopted land use plans.		(A A A A A A A A A A A A A A A A A A A	<u> </u>	
a. Do any municipally- adopted (city, town, vil where the proposed action would be located) include the site	✓Yes□No	
If Yes, does the comprehensive plan include sp would be located?		proposed action	□Yes ☑ No	
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) If Yes, identify the plan(s): Skaneateles Lake Watershed Watershed Rules & Regulations (10 CRR-NY 131.1 NY-CRR)				
 c. Is the proposed action located wholly or par or an adopted municipal farmland protection If Yes, identify the plan(s): 		ipal open space plan,	□Yes ∠ No	

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? The proposed action will be limited entirely to a portion of Skaneateles Lake, which is regulated by NYS	∐Yes ⊉ No
b. Is the use permitted or allowed by a special or conditional use permit?	□Yes☑No
c. Is a zoning change requested as part of the proposed action? If Yes, i. What is the proposed new zoning for the site?	□Yes☑No
C.4. Existing community services.	
a. In what school district is the project site located? Skaneateles School District	
b. What police or other public protection forces serve the project site? Skaneateles Police Department, Onondaga County Sherriff's Department	
c. Which fire protection and emergency medical services serve the project site? Skaneateles Fire Department, Skaneateles Ambulance Volunteer Emergency Services (SAVES)	
d. What parks serve the project site? Thayer Park & Cliff Park (Village of Skaneateles)	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed components)? Municipal Drinking Water	include all
b. a. Total acreage of the site of the proposed action? b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 568 acres 0 acres	
c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, square feet)? % Units:	☐ Yes No housing units,
 d. Is the proposed action a subdivision, or does it include a subdivision? If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) 	∏Yes ⊠ No
ii. Is a cluster/conservation layout proposed?iii. Number of lots proposed?	□Yes ☑ No
e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: ii. If Yes: • Total number of phases anticipated • Anticipated commencement date of phase 1 (including demolition) • Anticipated completion date of final phase • Generally describe connections or relationships among phases, including any contingencies where progred determine timing or duration of future phases:	

	t include new resid				☐ Yes 🗹 No
If Yes, show num	bers of units propo One Family	sed. <u>Two Family</u>	Thurs Family	Malain Is Family (form on mone)	
	One I ammy	1 wo ranniy	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion of all phases					
of all phases					
g. Does the propo	sed action include	new non-residenti	al construction (incli	uding expansions)?	☐Yes Ø No
If Yes,			,		
i. Total number					
ii. Dimensions (in feet) of largest productions	oposed structure:	height;	width; andlength	
				square feet	
				l result in the impoundment of any	□Yes☑No
If Yes,	s creation of a wate	r supply, reservoir	, pond, lake, waste I	agoon or other storage?	
<i>i.</i> Purpose of the	· imnoundment·				
	oundment, the prin	cipal source of the	water:	Ground water Surface water stream	ms Other specify:
iii. If other than v	vater, identify the ty	pe of impounded/	contained liquids an	d their source.	
in Annuavimete	size of the prepage	d immoundment	Valuma	: High callengs assets as areas	
v Dimensions o	f the proposed dam	u iiiipounament. Or impounding sti	volume:	million gallons; surface area:height; length	acres
vi. Construction	method/materials f	or the proposed da	m or impounding st	ructure (e.g., earth fill, rock, wood, con	crete):
D.2. Project Op	erations				
a. Does the propo	sed action include	any excavation, m	ining, or dredging, d	luring construction, operations, or both?	Yes No
		ition, grading or in	stallation of utilities	or foundations where all excavated	
materials will r	emain onsite)				
If Yes:	C 41				'
i. How much me	irpose of the excava	illon or areaging?	ts etc.) is proposed t	to be removed from the site?	
Volume	denai (including for	bio varde):	is, etc.) is proposed i	o de removed from the site?	
• Over wil	not duration of time)			
iii. Describe natu	re and characteristic	cs of materials to b	e excavated or dred	ged, and plans to use, manage or dispos	e of them.
· · · · · · · · · · · · · · · · · · ·					
	onsite dewatering	or processing of ex	cavated materials?		∐Yes∐No
If yes, descri	be				
w What is the to	otal area to be dredo	red or excavated?		acres	
vi. What is the m	naximum area to be	worked at any one	e time?	acres acres	
vii. What would	be the maximum de	pth of excavation	or dredging?	feet	
	avation require blas		~ ~ <u></u>		∐Yes∏No
ix. Summarize si	te reclamation goals	and plan:			
				·	
				crease in size of, or encroachment	☐ Yes ✓ No
•	ing wetland, waterb	ody, shoreline, bea	ach or adjacent area?	,	
If Yes:	vetland or waterboo	ly which would be	affected (by name	water index number, wetland map numb	ner or geographic
				——————————————————————————————————————	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:				
iii. Will the proposed action cause or result in disturbance to bottom sediments?	□Yes□No			
1037 - 1 - 11				
iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	☐ Yes☐No			
acres of aquatic vegetation proposed to be removed:				
expected acreage of aquatic vegetation remaining after project completion:				
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):				
proposed method of plant removal:				
• if chemical/herbicide treatment will be used, specify product(s):				
v. Describe any proposed reclamation/mitigation following disturbance:				
a Will the managed estion use or create a new demand for ustant				
c. Will the proposed action use, or create a new demand for water? If Yes:	☐Yes Z No			
i. Total anticipated water usage/demand per day: gallons/day				
ii. Will the proposed action obtain water from an existing public water supply?If Yes:	□Yes □No			
Name of district or service area:				
 Does the existing public water supply have capacity to serve the proposal? 	☐ Yes ☐ No			
• Is the project site in the existing district?	☐ Yes ☐ No			
• Is expansion of the district needed?	☐ Yes☐ No			
 Do existing lines serve the project site? 	☐ Yes☐ No			
iii. Will line extension within an existing district be necessary to supply the project? If Yes:	□Yes □No			
Describe extensions or capacity expansions proposed to serve this project:				
Source(s) of supply for the district:				
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes ☐ No			
Applicant/sponsor for new district:				
Date application submitted or anticipated:				
Proposed source(s) of supply for new district:				
v. If a public water supply will not be used, describe plans to provide water supply for the project:				
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity:	gallons/minute.			
d. Will the proposed action generate liquid wastes?	☐ Yes 🗹 No			
If Yes:				
 i. Total anticipated liquid waste generation per day: gallons/day ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe al 	Laammananta and			
approximate volumes or proportions of each):				
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	☐ Yes ☑ No			
Name of wastewater treatment plant to be used:				
Name of district: Does the printing westernest relating the property to gowy the project?				
 Does the existing wastewater treatment plant have capacity to serve the project? Is the project site in the existing district? 	□Yes□No □Yes□No			
 Is the project site in the existing district? Is expansion of the district needed? 	☐ Yes ☐No			
20 Oxpunsion of the district needed.	□ 1.62□140			

 Do existing sewer lines serve the project site? 	□Yes□No
 Will a line extension within an existing district be necessary to serve the project? 	☐Yes ☐No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	☐Yes ☑No
If Yes:	1632110
Applicant/sponsor for new district:	Ì
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including speci	fying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
The Describe any plans of designs to captate, feet of feater inquia waster.	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	☐Yes ☑No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	I es Nino
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
i. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or acres (impervious surface)	
Square feet or acres (parcel size)	
ii. Describe types of new point sources.	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr	onerties
groundwater, on-site surface water or off-site surface waters)?	operties,
ground that of our side out the outlier of the side outlier of the	i
If to surface waters, identify receiving water bodies or wetlands:	
Will stormwater runoff flow to adjacent properties?	□Yes□No
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	□Yes •No
combustion, waste incineration, or other processes or operations?	1 62 1100
If Yes, identify:	
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
m. Stationary sources during operations (e.g., process emissions, rarge boners, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	□Yes ☑No
or Federal Clean Air Act Title IV or Title V Permit?	☐ 1 c2 5 11/0
If Yes:	
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
•Tons/year (short tons) of Perfluorocarbons (PFCs)	
•Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
•Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
 Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 	

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes:	☐Yes ✓ No
 i. Estimate methane generation in tons/year (metric): ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion); iii. Describe any methane capture	enerate heat or
 i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): 	∏Yes☑No
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply):	Yes _ No s):
 iii. Parking spaces: Existing Proposed Net increase/decrease	□Yes□No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: i. Estimate annual electricity demand during operation of the proposed action: ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/le other): 	Yes No
 iii. Will the proposed action require a new, or an upgrade, to an existing substation? l. Hours of operation. Answer all items which apply. i. During Construction: Monday - Friday: Saturday: Saturday: Sunday: Holidays: Holidays: 	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?	☐ Yes ☑ No
If yes:	
i. Provide details including sources, time of day and duration:	
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	□Yes□No
Describe:	
n. Will the proposed action have outdoor lighting?	☐ Yes ☑ No
If yes:	
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?	□Yes□No
Describe:	
o. Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	☐ Yes ☑ No
occupied structures:	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	☐ Yes ☑ No
or chemical products 185 gallons in above ground storage or any amount in underground storage? If Yes:	
i. Product(s) to be stored ii. Volume(s) per unit time (e.g., month, year)	
iii. Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	✓ Yes □No
insecticides) during construction or operation?	_ 100
If Yes:	
i. Describe proposed treatment(s):EarthTec (algaecide) EPA Reg. No. 64962-1	
Eartiffee (algaeolde) El Afreg. No. 04302-1	
ii. Will the proposed action use Integrated Pest Management Practices?	✓ Yes □No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal	
of solid waste (excluding hazardous materials)?	
If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility:	
• Construction: tons per (unit of time)	
Operation: tons per (unit of time)	
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste	:
• Construction:	
Operation:	
iii. Proposed disposal methods/facilities for solid waste generated on-site: • Construction:	
Construction:	
Operation:	

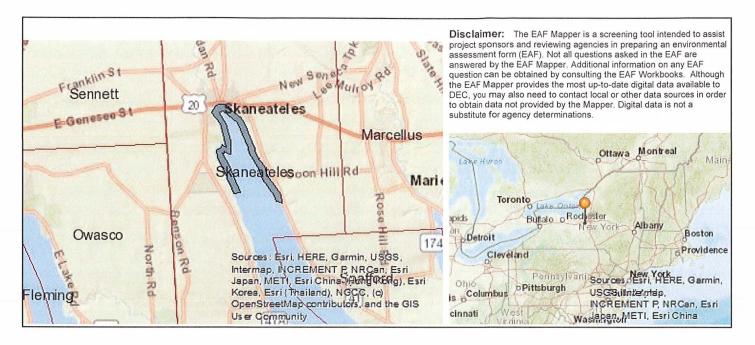
	es the proposed action include construction or modi	fication of a solid waste mar	nagement facility?	Yes 🗹 No
If Yes		Contha site (a a massatina a	- tuanafau atatian aanu aatius	- 1dell
<i>i.</i> Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities):				
ii. A	nticipated rate of disposal/processing:			
•	Tons/month, if transfer or other non-o	combustion/thermal treatmer	nt, or	
•	Tons/hour, if combustion or thermal t			
iii. If	f landfill, anticipated site life:	years		
	I the proposed action at the site involve the commer	rcial generation, treatment, s	torage, or disposal of hazarde	ous 🗌 Yes 🗹 No
was				
If Yes			. 1 -4 6994 .	
I. Na	ame(s) of all hazardous wastes or constituents to be	generated, nandled or mana	aged at facility:	
_				
ii. Ge	enerally describe processes or activities involving h	azardous wastes or constitue	ents:	
		<u>.</u>		
::: 0	nogify amount to be handled as concreted to	ang/manth		
iv D	pecify amount to be handled or generatedto rescribe any proposals for on-site minimization, rec	ons/monun valing or reuse of hazardous	constituents.	
· · · · · D	esorite any proposats for on site minimization, rec	yening of reuse of nazaraous	constituents.	
_				
v. W	Vill any hazardous wastes be disposed at an existing	g offsite hazardous waste fac	ility?	□Yes□No
If Yes	s: provide name and location of facility:			
If No:	describe proposed management of any hazardous	wastes which will not be sen	t to a hazardous waste facilit	v:
,			i vo a nasaraous viaste raemi,	, •
_				
E. Sit	te and Setting of Proposed Action			
E.1.	Land uses on and surrounding the project site			
a. Exi	isting land uses.			
	Check all uses that occur on, adjoining and near the	project site.		
☐ Ur	ban 🗌 Industrial 🗹 Commercial 🗹 Resid	lential (suburban) 🛮 🗹 Rura		
	rest Agriculture Aquatic Other	r (specify):		
ii. 1:	f mix of uses, generally describe:			'
b. Lai	nd uses and covertypes on the project site.			
	Land use or	Current	Acreage After	Change
	Covertype	Acreage	Project Completion	(Acres +/-)
	Roads, buildings, and other paved or impervious surfaces			
	Forested			
	Meadows, grasslands or brushlands (non-			
	agricultural, including abandoned agricultural)			
	Agricultural			
į.	includes active orchards, field, greenhouse etc.)			
	Surface water features			_
1	lakes, ponds, streams, rivers, etc.)	568	568	0
	Wetlands (freshwater or tidal)			
• N	Non-vegetated (bare rock, earth or fill)			
	Other			
1	Describe:			
•		15		

d. Are there any facilities serving children, the clderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, it Identify Facilities: Pees	□No
e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam length: • Surface area: • Volume impounded: ii. Dam's existing hazard classification: Class C iii. Provide date and summarize results of last inspection: May 16, 2019 Crest—repairs made to surface cracking. Upstream Slope—All observations are good, Downstream Slope—All observations are good. [F Has the project site ever been used as a municipal, commercial or industrial solid waste management facility. [F Yes] [F Has the facility been formally closed? [F Has th	☑No
If Yes: i. Dimensions of the dam and impoundment: Dam height: Da	
If Yes: i. Dim height: Dam he	
Dam height: Dam length: Dam l	_110
Dam length: Surface area: Volume impounded: 129 acres 129 acres Volume impounded: 128	
Surface area: Volume impounded: A12 Billion gallons OR acre-feet ii. Dam's existing hazard classification: Class C iii. Provide date and summarize results of last inspection: May 16, 2019 Crest – repairs made to surface cracking. Upstream Slope – All observations are good. Downstream Slope –	
Volume impounded:	
ii. Dam's existing hazard classification: Class C iii. Provide date and summarize results of last inspection: May 16, 2019 Crest – repairs made to surface cracking. Upstream Slope – All observations are good. Downstream Slope – All observations are good, Outlet Works – Trash racks and erosion along dam toe need to be monitored f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? • If yes, cite sources/documentation: ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iii. Describe any development constraints due to the prior solid waste activities: g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes – Spills Incidents database Provide DEC ID number(s): Provide DEC ID number(s): Provide DEC ID number(s):	
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☐ Neither database	
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iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yester the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?	☑No
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):	

v. Is the project site subject to an institutional control limiting property uses?	☐ Yes ✓ No
 If yes, DEC site ID number: Describe the type of institutional control (e.g., deed restriction or easement): 	
Describe any use limitations:	
 Describe any engineering controls: Will the project affect the institutional or engineering controls in place? 	☐ Yes ☐ No
Explain:	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site? N/A feet	<u>'</u>
b. Are there bedrock outcroppings on the project site?	□Yes☑No
If Yes, what proportion of the site is comprised of bedrock outcroppings?%	
c. Predominant soil type(s) present on project site: lake bottom sediments 100 %	
d. What is the average depth to the water table on the project site? Average:N/A feet	
e. Drainage status of project site soils: Well Drained: N/A % of site	
☐ Moderately Well Drained: N/A % of site ☐ Poorly Drained N/A % of site	
f. Approximate proportion of proposed action site with slopes: 0-10%: N/A % of site	
g. Are there any unique geologic features on the project site? If Yes, describe: Skaneateles Lake - North	✓ Yes No
h. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	☑ Yes No
ponds or lakes)? ii. Do any wetlands or other waterbodies adjoin the project site?	∠ Yes No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.	
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?	✓ Yes □No
iv. For each identified regulated wetland and waterbody on the project site, provide the following information: • Streams: Name 896-2, 896-3, 896-1.1 Classification AA, C(T)	
 Wetlands: Name Federal Waters, Federal Waters, Federal Waters, Approximate Size Wetland No. (if regulated by DEC) 	
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?	✓ Yes □No
If yes, name of impaired water body/bodies and basis for listing as impaired: Name - Pollutants - Uses:Skaneateles Creek and tribs - Priority Organics - Fish Consumption	
i. Is the project site in a designated Floodway?	☐Yes ☑No
j. Is the project site in the 100-year Floodplain?	Yes No
k. Is the project site in the 500-year Floodplain?	☐Yes ☑No
I. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? If Yes: Note: while part of the Town of Scott on the south end of the lake is over a sole source	☑Yes□No aquifer,
i. Name of aquifer: Principal Aquifer the project area is not over or immediately adjoining that or any other aquifer	

m. Identify the predominant wildlife species that occupy or use the project site:	
Yellow Perch Smallmouth Bass	
Muskgrass (Chara sp.)	
n. Does the project site contain a designated significant natural community? If Yes: i. Describe the habitat/community (composition, function, and basis for designation):	☐ Yes Ø No
ii. Source(s) of description or evaluation:	
iii. Extent of community/habitat:	
• Currently: acres	
Following completion of project as proposed: acres	
• Gain or loss (indicate + or -):	
 o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species. i. Species and listing (endangered or threatened): 	☐ Yes ☑ No es?
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of	□Yes☑No
special concern?	
If Yes:	
i. Species and listing:	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? If yes, give a brief description of how the proposed action may affect that use:	✓ Yes No
EarthTec (2EE - Reduced Rate For Algae) Details: Toxicity Statement: Aquatic Invertabrates, Fish	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number:	□Yes ☑ No
b. Are agricultural lands consisting of highly productive soils present?	□Yes ☑ No
i. If Yes: acreage(s) on project site?	
ii. Source(s) of soil rating(s):	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? If Yes:	∐Yes ☑ No
i. Nature of the natural landmark:	
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:	
	DV og ZNo
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? If Yes: i CFA name:	∐Yes⊮No
If Yes: i. CEA name:	□Yes ☑ No
If Yes:	

e. Does the project site contain, or is it substantially contiguous to, a but which is listed on the National or State Register of Historic Places, of Office of Parks, Recreation and Historic Preservation to be eligible for If Yes:	r that has been determined by the Commissi	
 i. Nature of historic/archaeological resource: Archaeological Site ii. Name: Eligible property: SHERWOOD INN, Eligible property: Syracuse Water 		Reside
iii. Brief description of attributes on which listing is based: Land - based facilities		
f. Is the project site, or any portion of it, located in or adjacent to an arrange archaeological sites on the NY State Historic Preservation Office (SF		∠ Yes □No
g. Have additional archaeological or historic site(s) or resources been in If Yes:		□Yes☑No
i. Describe possible resource(s):ii. Basis for identification:		
h. Is the project site within fives miles of any officially designated and scenic or aesthetic resource? If Yes:	publicly accessible federal, state, or local	∐Yes ☑ No
i Idantify resource:		
ii. Nature of, or basis for, designation (e.g., established highway over etc.):	ook, state or local park, state historic trail of	r scenic byway,
etc.): iii. Distance between project and resource: r	niles.	
 Is the project site located within a designated river corridor under the Program 6 NYCRR 666? If Yes: 	e Wild, Scenic and Recreational Rivers	☐ Yes No
i. Identify the name of the river and its designation:ii. Is the activity consistent with development restrictions contained in	6NYCRR Part 666?	□Yes□No
F. Additional Information Attach any additional information which may be needed to clarify yo If you have identified any adverse impacts which could be associated measures which you propose to avoid or minimize them.		mpacts plus any
G. Verification I certify that the information provided is true to the best of my knowl	edge.	
Applicant/Sponsor Name City of Syracuse - Department of Water	Date 3/18/2020	
friely alboth		
Signature	Title Watershed Quality Coordinator	<u> </u>



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	Yes
E.2.g [Unique Geologic Features]	Skaneateles Lake - North
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	896-2, 896-3, 896-1.1
E.2.h.iv [Surface Water Features - Stream Classification]	AA, C(T)
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	Yes
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Skaneateles Creek and tribs – Priority Organics – Fish Consumption

E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	, No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:SHERWOOD INN, Eligible property:Syracuse Water Department Gate House, Eligible property:Main Residence House, Eligible property:Weber Residence, 3 West Lake Street, Village of Skaneateles, Onondaga County, Eligible property:61 West Lake Street, Brook Farm, Smith Reuel E., House, Skaneateles Historic District, Shepard Family Houses
E.3.f. [Archeological Sites]	Yes

No

E.3.i. [Designated River Corridor]

ACCEPTED

August 16, 2018

New York State Department of Environmental Conservation Division of Materials Management Pesticide Product Registration Classified for "RESTRICTED USE" in New York State under 6NYCRR Part 326

Doc id: 558617

Earth Science Laboratories, Inc. 113 S.E. 22nd St., Suite 1 Bentonville, Arkansas 72712

Phone 800.257.9283 Fax 479.271.7693 www.earthsciencelabs.com

FIFRA Section 2(ee)
Recommendation

Product Bulletin
Technical Information

EarthTec – Use of Reduced Rates for Control of Algae, Nonpublic Health Bacteria, and Bacteria That Cause Odor Problems in the State of New York

EPA Reg. Number: 64962-1

This recommendation is made as permitted under FIFRA section 2(ee) and has not been submitted to or approved by the federal EPA.

Pesticide applicator certification and a permit from the New York State Department of Environmental Conservation may be required for sale, possession, or use. Contact the Pesticide Control Specialist at your NYSDEC regional office prior to the proposed application for specific conditions or exemptions.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty on the EPA registered label are to be followed. Refer to the container label for additional instructions. Always read and follow label directions. Information contained in this Technical Information Bulletin is not intended to replace or amend any product labeling. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. For use in controlling algae and cyanobacteria at all aquatic application sites do not exceed a copper concentration in water of 1.0 ppm of metallic copper concentration (background + applied).

The user must have this recommendation in their possession at the time of use.

Directions for Use - Open Waters

Apply a dose no more than 3 parts per million EarthTec (i.e., 3 gallons of EarthTec per million gallons of water treated, equivalent to 1 gallon of EarthTec per acre-foot), yielding a concentration of 0.18 mg/L (ppm) as metallic copper. Supplemental applications are permissible as long as no more than a cumulative total of 0.18 mg/L as copper is applied in any given 14-day period.

Dose			Cu ²⁺
(ppm by volume)	gals/MG*	gals/ac-ft	(mg/L)
0.5	0.5	0.15	0.030
1	1	0.3	0.060
2	2	0.7	0.120
3	3	1.0	0.180

^{*}MG = million gallons

Directions for Use - Infrastructure and Flowing Waters

For protection of pipelines and other infrastructure by addition to flowing waters, use a metering pump to deliver a dose equivalent to 0.5 to 3.0 uL/L of product, equivalent to 0.03 to 0.18 mg/L as copper.



For Impounded Waters, Lakes, Ponds, Reservoirs, Livestock Watering Systems, Potable Water Supplies+, Sedimentation Basins and Ornamental Water Features or Fountains; and Equipment/Structures that deliver water directly to publicly owned water treatment facilities to include pipes, intake structures, gatehouses, screens, pumping stations, weirs, and penstocks.

For Irrigation Conveyance Systems, Irrigation Reservoirs, Irrigation Canals and Ditches.

Bactericide* - Nonpublic Health Bacteria

Potable Water Supplies+ - Water Destined to Be Used as Drinking Water (this water must receive additional and separate potable water treatment)

THIS PRODUCT WEIGHS 9.91 LB. PER GALLON - 1.188 kg/L. AND CONTAINS 0.493 LBS ELEMENTAL COPPER PER GALLON

Manufactured by: Earth Science Laboratories, Inc.

113 SE 22nd Street, Suite 1 Bentonville, AR 72712 Phone: (800) 257-9283 EPA REGISTRATION NO. 64962-1 EPA ESTABLISHMENT NO. 64962-NE-001

NET CONTENTS:

TANKER

BATCH NO.



KEEP OUT OF REACH OF CHILDREN

WARNING • AVISO

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

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for 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 to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin

immediately with plenty of soap and water for 15 to 20 minutes. Call a poison control center or doctor for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric layage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC 1-800-535-5053 for emergency medical treatment.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON THE SIDE OR BACK PANEL.

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyevear (goggles, face shield or safety glasses), long sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any water proof material. Some materials that are chemical-resistant to this product are polyvinyl chloride, polyethylene and viton. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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 this hazard, do not treat more than 1/s of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 1/s days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. 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.

Certain water conditions including low pH (s.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 organisms. The application rates on this label are

Certain water conditions including low pH (±6.5), low dissolved organic carbon (UUC) levels (3.0 mg/L or lower) and 'soft' water's (i.e. alkalinity less than 50 mg/L) increases the potential acute toxicity to non-target aquatic organisms. The application rates on this label: appropriate for water with alkalinity greater than 50 mg/L. Do not use these application rates for water with less than 50 pg mg/L and other species of fish may be killed under such conditions.

Consult your local state fish and game agency before applying this product to public waters. Permits may be required before treating such waters.
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 (background + applied copper).

PERSONAL PROTECTIVE EQUIPMENT USER SAFETY REQUIREMENTS

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

- Long-sleeved shirt
 Chemical-resistant gloves made of any waterproof material (Chemical Resistance Category A)
- Long pants
 Protective eyewea

Shoes plus socks

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.

USER SAFETY RECOMMENDATIONS

-Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 -Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 -Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.
 -Wash the outside of gloves before removing.

Always refer to the label on the product before using EarthTec or any other product.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. 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 requirement specific to your state and tribe, consult the agency responsible for pesticide regulation.

USE INFORMATION

EarthTec® is used to control algae and to suppress nonpublic health bacteria and bacteria that cause taste and odor problems in impounded waters, lakes, ponds, lagoons, wastewater lagoons, reservoirs, livestock watering systems, potable water supplies, sedimentation basins, ornamental water features or fountains, and equipment/structures that deliver water directly to publicly owned water treatment facilities to include pipes, intake structures, gatehouses, screens, pumping stations, weirs, and penstocks.

EarthTec® is used to control algae and to suppress nonpublic health bacteria and bacteria that cause taste and odor problems in

irrigation conveyance systems, irrigation reservoirs, irrigation canals and ditches.

Earthlec® is an algaecide/bactericide*/molluscicide consisting of a soluble formulation of copper. Earthlec®s proprietary formulation ensures that the active ingredient – metallic copper – is delivered in the form of the biologically available cupric ion, Cu++.

Before treating bodies of water, consult NPDES permitting authorities. Do not exceed a free metallic copper concentration (background + applied copper) in treated water of 1.0 ppm (mg/L), equivalent to 16.7 mg/L of EarthTec .

This product has diffusional properties that move the ions through the water according to physical conditions. The product will stay soluble in the water until the ions are taken up by the algae/bacteria (non-public health) or affected by physical properties.

The product may be applied throughout the year. Apply when algae first appear. Apply based on the volume of water to be treated. The dose rates are variable and depend upon algae species, amount of algae present, water hardness, water temperature, turbidity and flows. Higher doses may be required for lower water temperatures, higher algae concentrations, and for hard waters. See Specific Directions for Use.

For control of planktonic algae, use a dose rate near the lower end of the labeled range. Dose near the higher end of the labeled range for rooted or stemmed species including Chara, Nitella, and filamentous algae. If there is uncertainty about the dosage, begin with the lower dosage and increase until algae control is achieved or until the maximum allowable level has been reached.

When treating flowing waters use a metering pump or similar means to apply a continuous dose so as to achieve a final dilution within the recommended range. See Specific Directions for Use.

USE IN CONTROL OF ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS

For algae control, apply in the late spring or early summer when algae first appear. The dosages are variable and depend upon algae species, water hardness, water temperature, amount of algae present, as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperature above 60 degrees F (15.6 degrees C). Higher dosages are required at lower water temperatures, higher algae concentrations and for hard waters. See Specific Directions for Use. EarthTec® is soluble and will quickly disperse. Earthlee* application for 3 acres or less may be poured directly into ponds, small lakes and reservoirs. Earthlee* application for 3 acres or more should be applied at several points in the ponds, lakes or reservoirs. Larger bodies of water can be treated with EarthTec® by dragging a feeder hose behind a boat across the body of water or dispensing via conventional spray equipment mounted to a boat, helicopter or airplane. EarthTec® will quickly diffuse throughout the water body in several hours; broad distribution of the product will speed dispersal and provide quicker control of algae. EarthTec® may be applied to irrigation systems by a drip system or feeder pump according to the flow volume. Use higher dosages for Chara, Nitella and filamentous algae, and lower dosages for planktonic algae. If there is uncertainty about the dosage begin with the lower dosage and increase until control is achieved or until the maximum allowable level has been reached. See Specific Directions for Use.

Treatment of algae can result in oxygen loss from the decomposition of dead algae. This loss can cause fish suffocation. If the algae cover more than 1/3 of the total water area, treat in sections. Treat 1/2 of the water area in a single operation and wait for 14 days between treatments. Begin treatment along the shore and proceed outward 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 to prevent masses of decaying algae under an ice cover. Before treating bodies of water, consult proper state authorities such as the fisheries commission or conservation department to obtain any necessary permits. For use in controlling algae and cyanobacteria at all aquatic application sites do not exceed a copper concentration in water of 1.0 ppm of metallic copper concentration (background + applied).

For example, if you wish to achieve 1.0 ppm of metallic copper, 1 gallon of EarthTec* added to 60,000 gallons of water is equal to 1.0 ppm metallic copper. In order to attain 1.0 ppm of metallic copper in the treated water, the amount of EarthTec* added to a water body is equal to the gallons of water being treated divided by 60,000 multiplied by 1 (e.g., see Gallons of EarthTec® and Water table below). Use

Gallons of EarthTec® and Water				
Gallons EarthTec®	Gallons Water	Metallic Copper (ppm)		
0.1 (0.4 quarts or 0.8 pints)	6,000	1.0		
1/4 (1 quart)	15,000	1.0		
1	60,000	1.0		
1 2/3	100.000	1.0		

Use formula for calculating water volume and flow rates. Calculate the volume of water (multiply the average depth by surface area). To calculate the gallons of water multiply the volume in cubic feet times 7.5. One cubic foot per second of flow equals 27,000 gallons/hour. One acre foot equals 326,000 gallons. See below for additional directions on methods of application to flowing water.

SPECIFIC DIRECTIONS FOR USE

To Control Algae, Nonpublic Health Bacteria, and Bacteria That Cause Odor Problems in Irrigation Reservoirs, Impounded Waters, Lakes, Ponds, Lagoons, Reservoirs, Livestock Watering Systems, Potable Water Supplies+, Sedimentation Basins and Ornamental Water Features or Fountains: For fish-bearing lakes, ponds, drinking water reservoirs, irrigation canals and other applications, apply at the rate of 1 quart of Earthlee® per 250,000 gallons of water, or 1 gallon of Earthlee® per 1,000,000 gallons of water for preventive treatment of algae and nonpublic health bacteria. This will yield a concentration of 0.06 ppm metallic copper. Increase as necessary to achieve control but do not exceed a resulting copper concentration of 1.0 mg/L of metallic copper (background + applied copper) in the treated water.

If algae are present, treat at the rate of 3 quarts of EarthTec® per 250,000 gallons of water, or 3 gallons of EarthTec® per 1,000,000 gallons of water. This will yield a concentration of 0.18 ppm metallic copper.

For applications without fish or for wastewater lagons apply at the rate of up to 1 quart of EarthTec per 15,000 gallons of water, or 1 gallon of EarthTec Per 60,000 gallons of water. This will yield a rate of 1.0 ppm metallic copper. Do not exceed a resulting concentration of 1.0 mg/L of metallic copper (background + applied copper) in the treated water.

Do not exceed 1 gallon of EarthTec® per 60,000 gallons of water (1.0 ppm metallic copper background + applied) under any circumstances for water destined for use as drinking water. EarthTec® may be poured into the water manually after calculating the volume of water to be treated and measuring the quantity EarthTec® necessary to attain a concentration of 0.06 ppm or by using an automated dispenser calibrated to release the required amount. For best results disperse EarthTec® evenly throughout the body of water on a sunny day when algae are near the surface. Do not apply copper sulfate to water with less than 50 ppm alkalinity. To Control and Suppress Algae, Nonpublic Health Bacteria and Bacteria that Cause laste and Odor Problems in Potable Water Supplies: Canals, Aqueducts; and equipment/structures that deliver the treated water directly to publicly owned water treatment facilities to include pipes, intake structures, gatehouses, screens, pumping stations, weirs, and penstocks:

For flowing waters use a metering pump to apply a continuous dose so as to achieve a final dilution not to exceed 1.0 mg/L as copper (16.7 ppm as EarthTec*). Preferably start with 1 to 4 ppm EarthTec* (0.06 to 0.24 mg/L metallic copper) and increase only as necessary. A continuous maintenance dose of 0.6 to 2.0 ppm EarthTec* (yielding a metallic copper concentration of 36 to 120 ppb, or micrograms per liter) can be used to prevent further growth. Start treatment at the first sign of algae problems and stop treatment when algae no longer pose a nuisance.

To Control Algae or Nonpublic Health Bacteria and Bacteria That Cause Odor Problems in Open Channel Irrigation Conveyance Systems, Ditches and Canals: To prevent algae growth using a static application method, apply 1 gallon of EarthTec* to 1,000,000 gallons of water to yield a rate of 0.06 ppm metallic copper in the water. If algae are present, apply 16.6 gallons of EarthTec* to 1,000,000 gallons of water to yield 1.0 ppm metallic copper. To prevent algae growth using continuous flow systems, a metered flow rate of 1 milliliter per minute is added to a pumping flow of 267 gallons per minute to yield a rate of 0.06 ppm metallic copper. If algae are present, do not exceed the total dose of 1 gallon of EarthTec® in 60,000 gallons of water (1.0 ppm metallic copper). See Example Calculation table below for

Control Algae or Nonpublic Health Bacteria and Bacteria That Cause Odor Problems in Sprinkler, Drip or Other Types of Irrigation Equipment: Agitation is not required. Do not mix with basic substances. EarthTec* must be applied continuously for the duration of the water application. To prevent growth of algae, nonpublic health bacteria, and bacteria that cause odor problems, treat at a rate of 1 gallon EarthTec* per 60,000 gallons of water to 1 gallon EarthTec* per 1,000,000 gallons of water. This will yield a rate of 1.0 ppm to 0.06 ppm metallic copper (see Example Calculation table below). If algae are visible, start by cleaning the pipes or lines and then applying 1 gallon of EarthTeco in 60,000 gallons of water (1.0 ppm metallic copper). See Example Calculation table below for continuous flow rates. Once the lines are cleaned, use the preventive dose described above.

EXAMPLE CALCULATION IRRIGATION FLOW RATES (0.06 ppm Cu)					
Water Flow Rate gpm	Water Flow Rate cfm	Dosage Rate ppm Metallic Cu	EarthTec® fl oz/min	Feeder Pump Setting EarthTec® mL/min	
3,000	400	0.06	0.4	11.3	
6,000	800	0.06	0.8	22.6	
9,000	1,200	0.06	1.1	34.0	
12,000	1,600	0.06	1.5	45.3	

IRRIGATION FLOW RATES (1.0 ppm Cu)					
Water Flow Rate gpm	Water Flow Rate cfm	Dosage Rate ppm Metallic Cu	EarthTec ⁸ fl oz/min	Feeder Pump Setting EarthTec® mL/min	
3,000	400	1.0	6.4	188.7	
6,000	800	1.0	12.8	377.5	
9,000	1,200	1.0	19.1	566.2	
12,000	1,600	1.0	25.5	755.0	

APPLICATION AND HANDLING EQUIPMENT

Application, handling or storage equipment MUST consist of fiberglass, PVC, polypropylene, viton, corrosion resistant plastics or stainless steel. Never use mild steel, nylon, brass or copper around EarthTee*. Always rinse and clean equipment thoroughly each night with plenty of fresh, clean water.

PESTICIDE STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. EarthTec® will freeze. Always storeEarthTec® above 32 degrees F (Do Not Freeze). Freezing may cause product separation.



Always keep container closed. Keep away from galvanized pipe, and any nylon storage or handling equipment.

DISPOSAL

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess EarthTec® mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance. In the event of spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

CONTAINER HANDLING

TANKER TRUCKS: Emptied container retains vapor and product residue. Observe all precautions stated on this label until the container is cleaned, reconditioned or destroyed. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, and worn-out threads and closures. Clean thoroughly before reuse for transportation of a material of different composition or before retiring this transport vehicle from service.

IMPORTANT READ BEFORE USING LIMITED WARRANTY AND LIMITATION OF REMEDIES

Read the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

buyer accepts the of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Earth Science Laboratories, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer,

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not be liable for more than the cost of this product to the buyer and will in no event be liable for any consequential, special or indirect damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied. Seller makes no warranty for product which has been frozen.

> Always refer to the label on the product before using EarthTec or any other product.



DEPARTMENT OF WATER

CITY OF SYRACUSE, MAYOR BEN WALSH

Date:						
		LETTER OF	NOTIFICATION			
Re: Proposed Treat	ment For Ha	rmful Algal Bloon	ns – Skaneateles	Lake		
The City of Syracuse ingredient; Copper algae blooms in the with the firm SOLITU	Sulfate Pente e north basin	ahydrate) on of the lake. The	, 2 Program will be c	020 to control pote onducted by certi	entially harmful	
The roads and fire the time of the tree					be posted at	
The following water use restrictions are currently applicable for your property for the duration of the treatment PLUS the timeframes indicated in the table below.						
	Water use restrictions are as follows: Drinking,					
Product	Swimming	Fish Consumption	Animal Consumption	culinary or food processing purposes	Irrigation	
EarthTec	No Restriction	No Restriction	No Restriction	No Restriction	No Restriction	
Product	Impact From Cyanobacteria Toxins Released					
EarthTec	No Impact					

The product label is attached hereto and is also available for review on SOLitude Lake Management's website at http://www.solitudelakemanagement.com/product-regulation-labels.

If you wish further information about the proposed management program or need hard copies of the product label, please contact Rich Abbott (315-263-9254) or SOLitude Lake Management (908-310-8775) between 9:00 am and 4:00 pm, Mon - Fri.

