



CITY OF WATERTOWN

Conservation Commission

Leo G. Martin, Chair
Maria P. Rose, Vice Chair
Charles Bering, Member
Jamie O'Connell, Member
Darya Mattes, Member
Rachel Danford, Member

Pursuant to Chapter 2 of the Acts of 2023, the meeting and public hearing will be conducted with remote opportunities for participation. Remote participation and access methods include:

CONSERVATION COMMISSION MEETING WEDNESDAY, JUNE 7, 2023 AT 7:00 PM

AGENDA

ACCESS INFORMATION:

- A. The meeting will be televised through WCATV (Watertown Cable Access Television):
<http://vodwcatv.org/CablecastPublicSite/?channel=1>
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/99597080710>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID: 995-970-80710
- D. Public may comment through email: sjenness@watertown-ma.gov

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- 1. Informational Meeting
 - A. Friends of Bees- presentation on Bee City.
 - 2. Informational Meeting
 - A. Whitney Hill proposed trail work discussion.
 - 3. Public Hearing-
 - A. (Continued to the July 12, 2023 meeting)- Lot located off 0 Arlington St- Notice of Intent submitted for the construction of a 41,289 square feet (sf) of pervious parking area to grade and pave the north side of Sawins Pond, extending from the existing paved parking lot, located off 0 Arlington Street, between 71 Arlington Street and 15 Arlington Street taking place within the 100 foot Buffer Zone of Vegetated wetlands and Inland Bank and locally regulated 150 foot Buffer Zone. Polina Safran, Representative from SWCA, Max Hatziliades, Owner

4. Public Hearing-
 - A. Request for Certificate of Compliance for Mass DEP- 321-0161- Notice of Intent permit on behalf of Mount Auburn Cemetery for the repair and improvement of stormwater discharges on the northwestern shore of Willow Pond within the cemetery grounds. Scott Fisher, SWCA, Representative
5. Public Hearing-
 - A. 650 Pleasant St- (Mass DEP 321- 0171)-Request for Certificate of Compliance.
6. Commission Discussion and Vote
 - A. Nominations and vote for new chair and vice chair.
7. Commission Discussion
 - A. Review and Vote of Finalized Language for electronic signatures for Watertown Conservation Commission.
8. Acceptance of Minutes
 - A. Review and acceptance of Minutes from the April 12, 2023 Conservation Commission meeting.
Review and acceptance of Minutes from the May 3, 2023 Conservation Commission meeting.
9. Agent Report
 - A.
 1. CPC report.
 2. 23 Elm St., (DEP# 321-0172).
 3. DCR Blue Heron Trail and Cannalonga Park (DEP# 321-0185).
 4. DCR Vegetation management (DEP# 321-0179 AND 321- 0183).
 5. 350 Pleasant Street (DEP #321-0163).

A close-up photograph of a green and yellow striped bee, likely a species of Megachile, perched on the center of a vibrant purple flower. The bee's body is a bright green, and its abdomen features distinct yellow and black stripes. Its wings are transparent with visible veins. The flower has numerous long, slender purple petals. The background is a soft, out-of-focus green, suggesting foliage.

Bee City USA

An Initiative of The Xerces Society for Invertebrate Conservation

The Xerces Society



Photo: Endangered Fender's blue butterfly (*Icaricia icarioides fenderi*) by Dana Ross

***Protecting the life that
sustains us***

Since 1971, the Xerces Society has worked to protect wildlife through the conservation of invertebrates and their habitat.

Bee City USA

Bringing communities together to sustain pollinators, in particular the more than 3,600 species of native bees in this country, by increasing the abundance of native plants, providing nest sites, and reducing the use of pesticides.



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Honey Bees





Beekeeping ≠ Bee Conservation

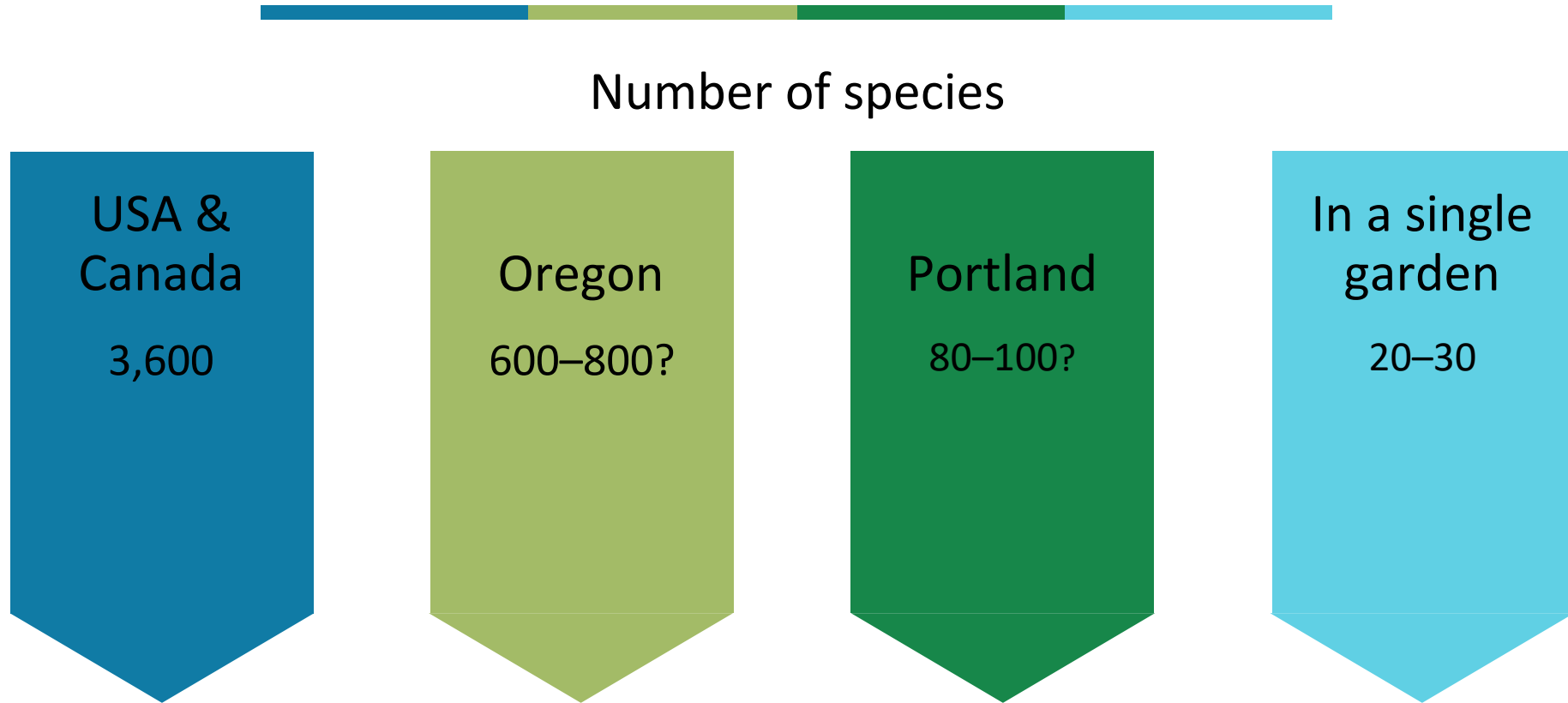








Bee Diversity



Other Pollinators

Butterflies



Moths



Beetles



Flies



Photos: Dennis Burnette, Stephanie McKnight, Whitney Cranshaw, Scott Horvath

Why Care About Pollinators?



Plant Reproduction



Food Production

Ecological Role

Pollinators are at the center of complex food webs.

They enable the fruits and seeds that make up a major part of the diet of many animals.



And sometimes they are the food themselves.



Photos: Wildreturn, Flickr; Colleen Prieto, Flickr; U.S. Forest Service; kansasphoto, Flickr.

A top-down view of a glass bowl filled with a colorful tomato salad. The salad consists of halved cherry tomatoes in red and yellow, diced white onions, and finely chopped green cilantro. The bowl is set against a dark, textured background.

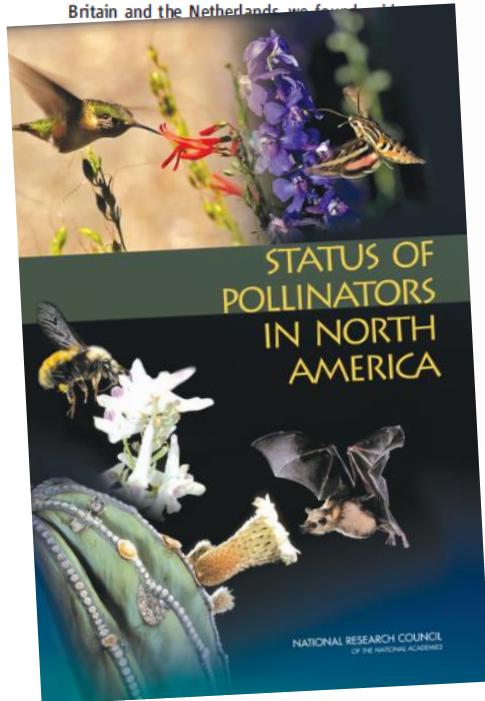
Enrich our Lives, Define our Seasons

The Science is Clear: Pollinators are in Peril

Parallel Declines in Pollinators and Insect-Pollinated Plants in Britain and the Netherlands

J. C. Biesmeijer,^{1*} S. P. M. Roberts,² M. Reemer,³ A. P. Schaffers,⁷ S. G. Potts,² R. Kleukers,³ C. D.

Despite widespread concern about declines in poll patterns of change in most pollinator assemblages Britain and the Netherlands, we found that



However, the evidence for such declines remains scanty (5).

To adequately demonstrate a decline in pollinator services, one would need to document (i) overall declines in...

Plant-Pollinator Interactions over 120 Years: Loss of Species, Co-Occurrence, and Function

Laura A. Burkle,^{1,2*} John C. Martin,³ Tiffany M. Knight¹

Using historic data sets, we quantified the degree to which global change over 120 years disrupted plant-pollinator interactions in a temperate forest understory community in Illinois, USA. We found degradation of interaction network structure and function and extirpation of 50% of bee species. Changes can be attributed to shifts in forb and bee phenology, resulting in temporal co-occurrences between services have declined; however, disturbance; however,

Almost 90% of pollinator interactions are likely susceptible to their sensitivity

Patterns of widespread decline in North American bumble bees

Sydney A. Cameron^{a,1}, Jeffrey D. Lozier^a, James P. Strange^b, Jonathan B. Koch^{b,c}, Nils Cordes^{a,2}, Leellen F. Solter^d, and Terry L. Griswold^b

^aDepartment of Entomology and Institute for Genomic Biology, University of Illinois, Urbana, IL 61801; ^bUnited States Department of Agriculture-Agricultural Research Service Pollinating Insects Research Unit, Utah State University, Logan, UT 84322; ^cDepartment of Biology, Utah State University, Logan, UT 84321; and ^dIllinois Natural History Survey, Institute of Natural Resource Sustainability, University of Illinois, Champaign, IL 61820

Edited* by Gene E. Robinson, University of Illinois, Urbana, IL, and approved November 24, 2010 (received for review October 3, 2010)

Bumble bees (*Bombus*) are vitally important pollinators of wild plants and agricultural crops worldwide. Fragmentary observations, however, have suggested population declines in several North American species. Despite rising concern over these observations in the United States, highlighted in a recent National Academy of

Long-Term Trends in Eastern North American Monarch Butterflies: A Collection of Studies Focusing on Spring, Summer, and Fall Dynamics

ANDREW K. DAVIS^{1,2} AND LEE A. DYER³

ELSEVIER

journal homepage: www.elsevier.com/locate/jip

A historical review of managed honey bee populations in Europe and the United States and the factors that may affect them

Dennis vanEngelsdorp^{a,*}, Marina Doris Meixner^b

^aDepartment of Entomology, The Pennsylvania State University, 501 ASI Bldg., University Park, PA 16802, USA
^bLLH Bieneninstitut, Erlenstrasse 9, 35274 Kirchhain, Germany

The monarch butterfly, *Danaus plexippus*, is one of the most appreciated insects in North America.

study in the United States identified lower genetic diversity and elevated genetic differentiation (F_{ST}) among Illinois populations of the putatively declining *B. pensylvanicus* relative to those of a codistributed stable species (19). Similar patterns have been observed in comparative studies of some European species (8), but

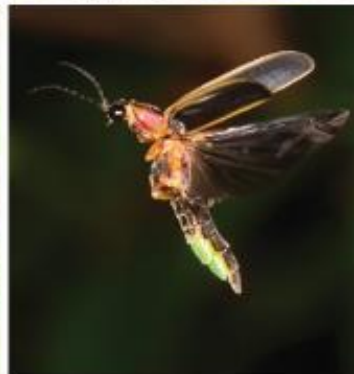
Pollinator Declines

Globally: Up to 40% of pollinator species may be at risk of extinction in the coming years.

North America:
More than a quarter of bumble bees species are in decline



Photo: Rusty-patched bumble bee (*Bombus affinis*), Rich Hatfield



Drivers of Pollinator Declines



Habitat loss and
degradation

Drivers of Pollinator Declines



Habitat loss and degradation



Pesticide use

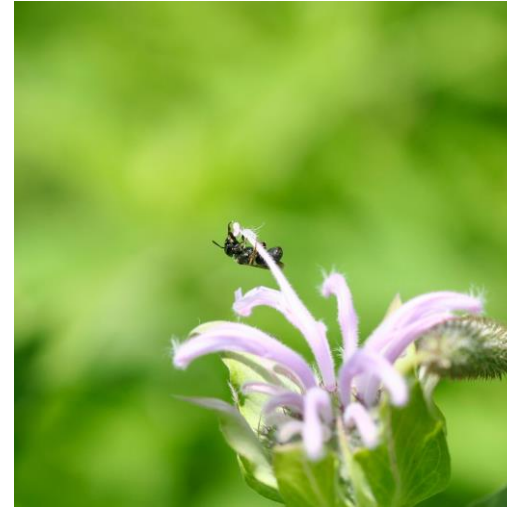
Drivers of Pollinator Declines



Habitat loss and degradation



Pesticide use



Diseases and pathogens

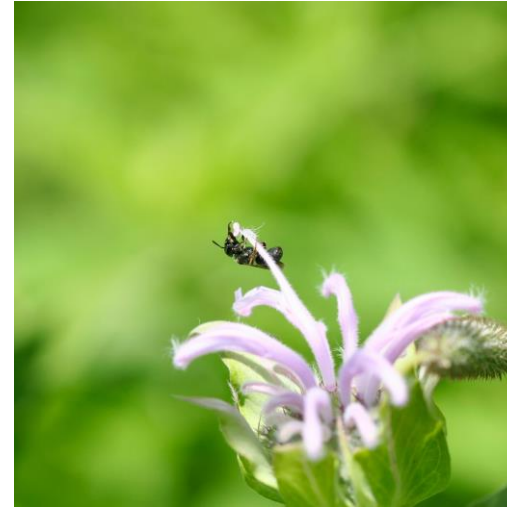
Drivers of Pollinator Declines



Habitat loss and degradation



Pesticide use



Diseases and pathogens



Climate change

Good News: There are Solutions



Pollinator Conservation Principles



Increase the
availability of
native flowering
species

Pollinator Conservation Principles



Increase the
availability of
native flowering
species



Provide
appropriate
nesting
substrates

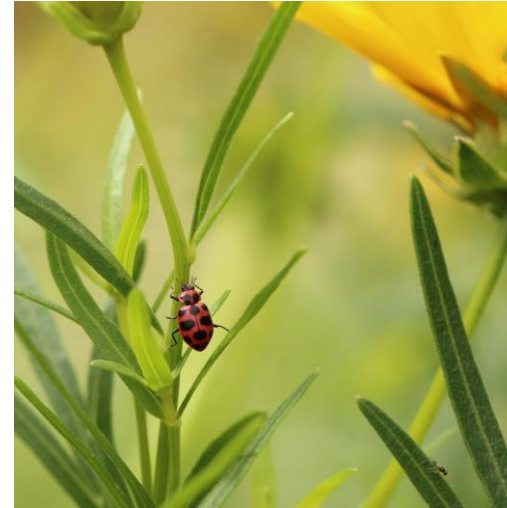
Pollinator Conservation Principles



Increase the
availability of
native flowering
species



Provide
appropriate
nesting
substrates



Find alternatives
to harmful
pesticides

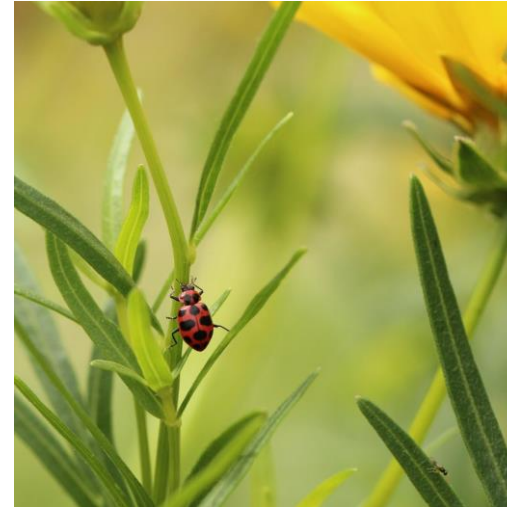
Pollinator Conservation Principles



Increase the
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Provide
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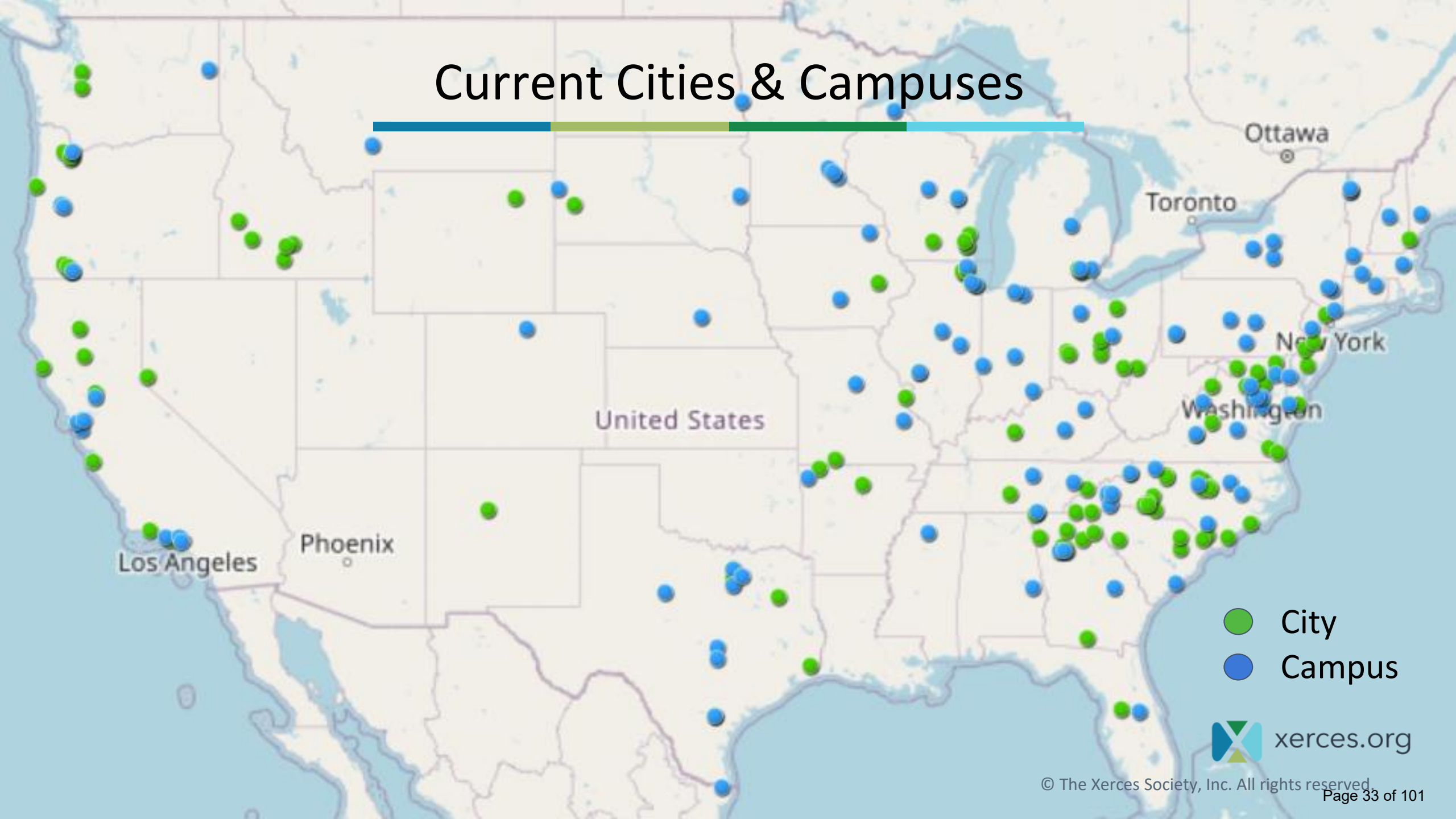


Find alternatives
to harmful
pesticides



Educate and
spread
awareness

Current Cities & Campuses



Bee City USA Commitments

RESOLUTION NO. _____

A RESOLUTION of [your city council or county commission of your city and state] designating [your city or county] as a BEE CITY USA® affiliate.

WHEREAS, the mission of BEE CITY USA is to galvanize communities to sustain pollinators, responsible for the reproduction of almost 90% of the world's flowering plant species, by providing them with healthy habitat, rich in a variety of native plants and free to nearly free of pesticides; and

WHEREAS, thanks to the more than 3,600 species of native bees in the United States, along with introduced honey bees, we have very diverse dietary choices rich in fruits, nuts, and vegetables; and

WHEREAS, bees and other pollinators have experienced population declines due to a combination of habitat loss, poor nutrition, pesticides (including insecticides, fungicides, and herbicides), parasites, diseases, and climate change; and

WHEREAS, pollinator-friendly communities can benefit local and regional economies through healthier ecosystems, increased vegetable and fruit crop yields, and increased demand for pollinator-friendly plant materials from local growers; and

WHEREAS, ideal pollinator-friendly habitat (A) is comprised of mostly native wildflowers, grasses, vines, shrubs, and trees blooming in succession throughout the growing season to provide diverse and abundant nectar and pollen, since many wild pollinators prefer or depend on the native plants with which they co-adapted; (B) is free to nearly free of pesticides, as many pesticides can harm pollinators and/or their habitat; (C) comprises undisturbed spaces (leaf and brush piles, unknown fields or field margins, fallen trees and other dead wood) for nesting and overwintering; and (D) provides connectivity between habitat areas to support pollinator movement and resilience; and

WHEREAS, Integrated Pest Management (IPM) is a long-term approach to maintaining healthy landscapes and facilities that minimizes risks to people and the environment by: identifying and removing the causes of pest problems rather than only attacking the symptoms (the pests); employing pests' natural enemies along with cultural, mechanical, and physical controls when prevention is not enough; and using pesticides only when no other method is feasible or effective; and

WHEREAS, supporting pollinators fosters broad-based community engagement in environmental awareness and sustainability; and

WHEREAS, [your city or county] should be certified a BEE CITY USA community because [this is optional section for you to highlight anything your community has already done or plans to do to conserve pollinators]; and

NOW, THEREFORE, in order to enhance understanding among local government staff and the public about the vital role that pollinators play and what each of us can do to sustain them, [your city or county] chooses to support and encourage healthy pollinator habitat creation and enhancement, resolving as follows:

1. The [your city or county] [appropriate department name] Department is hereby designated as the BEE CITY USA sponsor.
2. The [appropriate position title] of [department above] is designated as the BEE CITY USA Liaison.
3. Facilitation of [your city or county]'s BEE CITY USA program is assigned to the [committee name] Committee.
4. The [committee name] Committee is authorized to and shall:
 - a. **Celebration:** Host at least one educational event or pollinator habitat planting or restoration each year to showcase [your city or county name]'s commitment to raising awareness of pollinator conservation and expanding pollinator health and habitat.

Bee City USA [An Initiative of the Xerces Society for Invertebrate Conservation] Resolution Template [4/19]
Page 1 of 2

- b. **Publicity & Information:** Install and maintain at least one authorized BEE CITY USA street sign in a prominent location, and create and maintain a webpage on the [your city or county name] website which includes, at minimum a copy of this resolution and links to the national BEE CITY USA website; contact information for your BEE CITY USA Liaison and Committee; reports of the pollinator-friendly activities the community has accomplished the previous year(s); and your recommended native plant species list and integrated pest management plan (explained below).
- c. **Habitat:** Develop and implement a program to create or expand pollinator-friendly habitat on public and private land, which includes, but is not limited to, identifying and inventorying [City or County]'s real property that can be enhanced with pollinator-friendly plantings; creating a recommended locally native plant list to include wildflowers, grasses, vines, shrubs, and trees and a list of local suppliers for those species; and, tracking (by square footage and/or acreage) annual area of pollinator habitat created or enhanced.
- d. **Pollinator-Friendly Pest Management:** Create and adopt an integrated pest management (IPM) plan designed to prevent pest problems, reduce pesticide use, and expand the use of non-chemical pest management methods.
- e. **Policy & Plans:** Establish, through the [City or County], a policy in the [Plan name] Plan of [City's or County's] Comprehensive Plan to acknowledge and commit to the BEE CITY USA designation and review the [Plan name] Plan and other relevant documents to consider improvements to pest management policies and practices as they relate to pollinator conservation, identify appropriate locations for pollinator-friendly plantings, and consider other appropriate measures.
- f. **Renewal:** After completing the first calendar year as a BEE CITY USA affiliate, each February, apply for renewal of [your city or county name]'s BEE CITY USA designation following the format provided by BEE CITY USA, including a report of the previous year's BEE CITY USA activities, and paying the renewal fee based on [your city or county name]'s population.

ADOPTED by the [City Council or County Commission] of the [your city or county name, state], this ___ day of _____, 20__.

Bee City USA Commitments

Establish a Bee City USA committee to advocate for pollinators.



Bee City Committee

City Staff

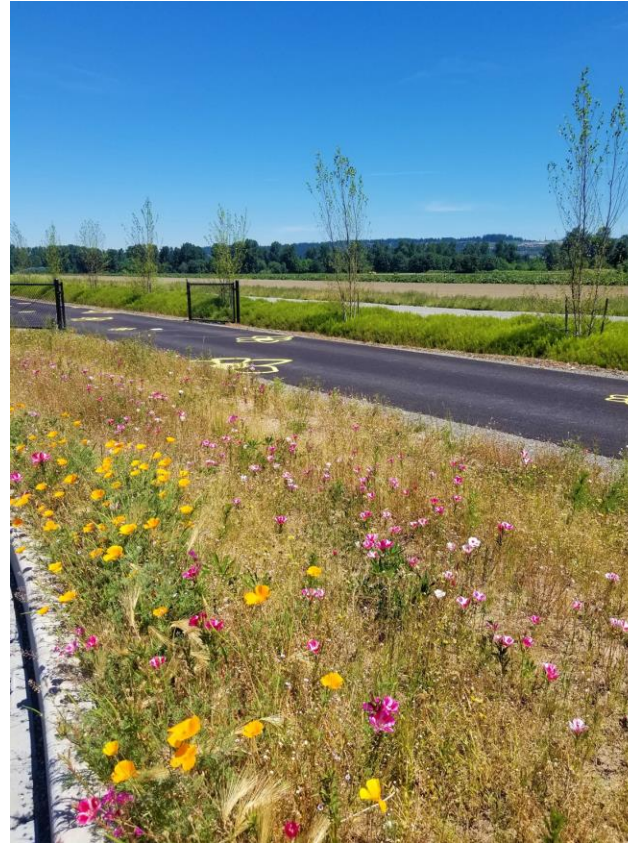
Parks & Rec
Staff

Engaged
citizens

Local
Experts

Bee City USA Commitments

Create and enhance pollinator habitat on public and private land.



Integrated Pest Management (IPM) Plan

SMARTER PEST MANAGEMENT

Protecting Pollinators at Home



Towns and cities are home to numerous pollinators, including the gulf fritillary (left) and the endangered rusty patched bumble bee (middle). By creating healthy, diverse, pesticide-free habitat in your yard, not only are you enriching your own life, but you are helping prevent insect declines—and potentially, extinction. (Photos: (l) Dennis Krusac; (m) Xerces Society / Sarina Jepsen; (r) Matthew Shepherd.)

Making Your Yard a Safe Place for Pollinators

Making your home pollinator-friendly is easy and rewarding. Most of North America's native bee species only forage over a distance of a few hundred yards, so with a little planning, your yard can provide a safe space for bees and other pollinators to thrive. All you need to give them are flowering plants throughout the growing season, undisturbed places to nest, and protection from pesticides. This guide will help you with the last item, managing yard pests in a pollinator-friendly way.

Urban Settings Provide Key Habitat for At-Risk Pollinators

Around the world, bee and butterfly populations are experiencing declines. Twenty-eight percent of North American bumble bees and 19 percent of butterfly species in the United States are at risk of extinction. Residential areas provide important food and shelter for many of our threatened and endangered pollinators. By establishing pollinator habitat in your yard, you will be an active part of restoring species on the brink.

Provide for All the Needs of Pollinators

To ensure you can support the entire life cycle of bees and butterflies, consider the following ideas for your yard:

1. Select a range of native and regionally adapted plants with bloom times that overlap throughout the growing season to provide food for pollinators. Be sure to include plants that bloom early and late in the season.
2. Include butterfly larval host species for caterpillars to feed on. Consult Xerces' regional plant lists (available from xerces.org) to find recommendations for your area. For more detailed information, see *Gardening for Butterflies* (Timber Press, 2016).
3. Limit planting cultivated plant varieties, especially those bred for showy blooms. While often selected for



XERCES
SOCIETY
for Invertebrate Conservation

Habitat Planning for Beneficial Insects

Guidelines for Conservation Biological Control

Jennifer Hopwood, Eric Lee-Mäder, Lora Morandin, Mace Vaughan,
Claire Kremen, Jessa Kay Cruz, James Eckberg, Sarah Foltz Jordan,
Kelly Gill, Thelma Heidel-Baker, and Sara Morris



XERCES
SOCIETY
for Invertebrate Conservation



Integrated Pest Management Policy

Ashland Parks and Recreation Commission (APRC)

Adopted by APRC on:
May 24, 2010
Revised on:
February 28, 2011
June 27, 2011
February 27, 2012
April 22, 2013
April 28, 2014
May 22, 2017

Integrated Pest Management Policy
Ashland Parks & Recreation Commission (APRC)
Page 1 of 11

Recommended Native Plant List



The Northeast Region encompasses southern Quebec, New Brunswick, Nova Scotia, the New England states, and eastern New York. High regional variation in topography, soils, and climate translates to tremendous ecological diversity, ranging from the coastal dunes and tidal ecosystems along the Atlantic shoreline, to the spectacularly species-rich deciduous forests and riparian communities of the Appalachian Highlands.

Corresponding to this striking diversity of plant communities is an equally remarkable range of pollinators, including twenty bumble bee species and thousands of other species of native bees, butterflies, hover flies, flower-visiting beetles, wasps, and moths. As a group, these and other pollinators maintain healthy, productive plant communities, provide food that sustains wildlife, and play an essential role in crop production. In the Northeast, several important pollinators, including the yellow-banded bumble bee (*Bombus terricola*) and endangered rusty-patched bumble bee (*B. affinis*), are threatened by habitat loss, including dramatic declines in native plant communities needed to support these animals.

Providing wildflower-rich habitat is the most significant action you can take to support pollinators. Adult bees, butterflies, and other pollinators require nectar as their primary food source. Female bees also collect pollen as food for their offspring. Native plants, which are adapted to local soils and climates, are usually the best sources of nectar and pollen for native pollinators. In addition, native plants often

require less water than non-natives, do not need fertilizers, and are less likely to become weedy.

This guide features regional native plants that are highly attractive to pollinators and are well-suited for small-scale plantings in gardens, on business and school campuses, in urban greenspaces, and in farm field borders. In addition to supporting native bees and honey bees, many of these plants attract nectar-seeking butterflies, moths, and hummingbirds, and some are host plants for butterfly and moth caterpillars. With few exceptions, these species occur broadly across the region and can be purchased as seed or transplants. Please consult regional Floras, the Biota of North America's North American Plant Atlas (<http://bonap.net/napa>), or the USDA's PLANTS database (<http://plants.usda.gov>) for details on species' distributions in your area.

Our **Bring Back the Pollinators** campaign is based on four principles:

1. Grow a variety of pollinator-friendly flowers;
2. Protect and provide bee nest sites and caterpillar host plants;
3. Avoid using pesticides, especially insecticides; and
4. Spread the word!

You can participate by taking the **Pollinator Protection Pledge** and registering your habitat on our nationwide map at:

www.bringbackthepollinators.org



											
Bloom Period	Common Name	Scientific Name	Flower Color	Max. Height*	Water Needs	Notes	This list of pollinator plants for the Northeast Region was produced by the Xerces Society. For more information about pollinator conservation, please visit www.xerces.org .				
				(feet)	Low: 16" or less; M: medium 16" to 4' high	All species are perennials, unless otherwise noted. *Max. Height is an average, individual plants may vary.					
Early	1 Golden Alexanders	<i>Zizia aurea</i>	yellow	3	H	Host plant for black swallowtail butterfly; shallow nectaries attract small beneficial wasps, bees, and flies					
	2 Wild geranium	<i>Geranium maculatum</i>	pink	3	M	Shade-tolerant; provides important spring food for mining, cuckoo, mason, sweat, bumble, and small carpenter bees					
Early-Mid	3 Spiderwort	<i>Tradescantia virginiana</i>	blue	3	M	The attractive flowers of this unique iris-relative are frequented by bumble bees and other pollinators; shade tolerant					
	4 Blue vervain	<i>Verbena hastata</i>	blue	5	H	A preferred nectar plant for bees, butterflies, hover flies, and bee flies; choose <i>Verbena stricta</i> for drier soils					
Mid	5 Narrowleaf mountain mint	<i>Pycnanthemum tenuifolium</i>	white	3	L-M	This and related species have fragrant foliage and nectar-rich flowers; very popular with butterflies, beetles, and more					
	6 Swamp milkweed	<i>Asclepias incarnata</i>	pink	5	M-H	Host plant for monarchs; lovely fragrance attracts insects of all kinds; at drier sites use common or butterfly milkweed					
	7 Wild bergamot	<i>Monarda fistulosa</i>	purple	4	M	Hawk moths, hummingbirds, and long-tongued bumble bees (such as <i>Bombus pensylvanicus</i>) are common visitors					
Mid-Late	8 Boneset	<i>Eupatorium perfoliatum</i>	white	5	H	Flat-topped clusters of fluffy, nectar-rich flowers attract many kinds of insects; tolerant of partial shade and wet soils					
	9 Cardinal flower	<i>Lobelia cardinalis</i>	red	4	H	Striking, scarlet-red tubular flowers attract hummingbirds and swallowtail butterflies					
	10 Field thistle	<i>Cirsium discolor</i>	purple	6	M	Distinct from invasive, non-native thistles; an important plant for butterflies and bumble bees; grows as a perennial or biennial					
	11 Wild golden glow	<i>Rudbeckia laciniata</i>	yellow	7	H	Long bloom period; shade-tolerant; visited by bumble bees and other pollinators; seeds provide food for birds					
Late	12 Bottle gentian	<i>Gentiana clausa</i>	blue	2	M	This unique fall flower is almost exclusively pollinated by bumble bees, which pry the petals apart to climb inside					
	13 Calico aster	<i>Symphyotrichum lateriflorum</i>	white	3	M	The shallow nectaries attract more insect diversity than some larger-flowered aster species; tolerant of partial shade					
	14 Gray goldenrod	<i>Solidago nemoralis</i>	yellow	2	L	Excellent for poor soils where little else will grow; one of the latest blooming goldenrods; visited by many pollinators					
	15 New England aster	<i>Symphyotrichum novae-angliae</i>	purple	6	M	One of the latest fall-blooming plants; frequented by honey bees and pre-hibernation bumble bee queens					
	16 Wrinkleleaf goldenrod	<i>Solidago rugosa</i>	yellow	3	M-H	Goldenrods are frequented by beneficial solitary wasps, pollen-eating soldier beetles, bumble bees, and much more					
	Shrubs and Trees										
Early	17 Highbush blueberry	<i>Vaccinium corymbosum</i>	white/ pink	12	M-H	Well-loved by humans and also provides food for mining bees, mason bees, and long-tongued bumble bees					
	18 Pussy willow	<i>Salix discolor</i>	yellow/ green	15	M-H	Silky gray catkins open into flowers that provide spring forage for bees; host plant for mourning cloak butterflies					
	19 Raspberry, blackberry	<i>Rubus</i> spp.	white	4+	M	Hollow canes/ prunings make excellent nest sites for cavity-nesting bees; flowers are pollinated by many kinds of bees					
Early-Mid	20 American basswood	<i>Tilia americana</i>	cream	60	M	Also called "bee tree" for its abundance of very fragrant, nectar-rich flowers which are extremely attractive to bees					
	21 Ninebark	<i>Physocarpus opulifolius</i>	white	8	L	Deciduous shrub with attractive foliage, peeling bark, and white flowers; loved by birds, bees, and butterflies					
Mid	22 New Jersey tea	<i>Ceanothus americanus</i>	white	4	M	A magnet for many species of flies, wasps, bees, and butterflies; slow growing and prone to deer browsing					
	23 Virginia rose	<i>Rosa virginiana</i>	pink	6	L	Foliage is used by leafcutter bees; flowers provide food for many pollinators; exceptional leaf coloration in the fall					
Late	24 Buttonbush	<i>Cephalanthus occidentalis</i>	white	12	H	Host plant for numerous moths and butterflies; pincushion-like flowers are very attractive to butterflies and bees					
											

Bee City USA Commitments

Make city or county policies and plans pollinator-conscious.



Bee City USA Commitments

Host pollinator awareness events.



Bee City USA Commitments

Publicly acknowledge Bee City USA affiliation with signs and an online presence.



Bee City USA Commitments

Annually apply for renewal and report on last year's activities.



Bee City USA Annual Report Pollinator Conservation & Education 2019



Decatur, Georgia

EDUCATION & OUTREACH



Kids hard at work assembling simple Mason Bee houses during our annual workshop in February.



Decatur's Earth Day observance was the perfect time to get city residents excited about bees.



We distributed 500 flyers about the environmental hazards posed by backyard mosquito spraying during Decatur's Haints & Saints Halloween Parade, the perfect platform for our theme "Don't Turn Your Backyard Into A Graveyard."



National Pollinator Week kicked-off in Decatur with our first-ever mini Pollinator Week festival! More than 200 people attended and learned about native plants, trees, pollinators and more courtesy of 13 environmental group vendors.



The annual Mead Road Mardi Gras Parade gave us an opportunity to distribute 500 flyers about bee-friendly yard practices to parade watchers. Our Kwee's theme this year was "Stayin' Alive!"

City & Community Events

- "Backyard Builders: Make a Home for Mason Bees!" was the title of our annual children's Mason Bee Workshop presented in conjunction with Wilde Center in February. Thirty-two participants were introduced to the Mason Bee, one of metro Atlanta's most important early-Spring pollinators. Covered were topics like how to spot them, where they live, their unique life-cycle and how they are similar to and different from other bees. Participants then assembled and decorated a simple Mason Bee house to hang in their yards at home.
- In February, we marched for a second year the Mead Road Mardi Gras parade, using it as a platform for distributing 500 pieces of literature about bee-friendly yard practices directly to residents. Our theme this year was "Stayin' Alive!"
- In February, we again participated in the city's annual celebration of Georgia Arbor Day. We showed off a colony of honey bees in an observation hive to the great interest of many passers-by and distributed literature about native bees and bee-friendly yard practices.
- The City of Decatur Employee Wellness Breakfast in March provided an opportunity for us to share local honey over a healthy morning meal and discuss how honey bees produce this sweet superfood.
- We again brought an observation hive of bees and answered bee-related questions during Decatur's Earth Day Celebration at Decatur Rec Center in April.
- Decatur's first ever National Pollinator Week Mini Festival was held on June 15th, kicking off the week-long annual celebration. Thirteen vendors representing a variety of environmental interests participated. More than 200 people attended the event learning about everything from native plants, to native bees, honey bees, honey production, birds, trees, seeds, crafts, facepainting and more!
- Other National Pollinator Week events included screenings of the films "Hometown Habitat: Stories of Bringing Nature Home" and DisneyNature's "Wings of Life," as well as the kids' talk "Marvel-ous Bees: Superheroes of the Natural World."
- In August, citizen scientists from across our state helped document pollinators during the Great Georgia Pollinator Census! As part of the event, organized by UGA's Cooperative Extension Office, Beecatur hosted counting locations at Wilde Center and the Willow Lane Pollinator Habitat. Statewide, 4,567 counts were submitted from 133 different Georgia counties, tallying some 133,963 insect visits!
- In October, we marched in Decatur's Haints & Saints Halloween parade, using it as a platform for distributing literature about bee-friendly yard practices. Our theme was "Don't Turn Your Backyard Into A Graveyard."
- The 3rd Annual "Walking Past The Dead" Tour of Trees in Decatur Cemetery in November gave us a final opportunity to table with literature and Pollinator Pledge signs and information.

Other programming presented to community groups in and around Decatur during 2019 included:

- "Bee-Yond Honey Bees: Meet Your Native Bees," at Avon Garden Club (Avondale, GA)
- "3 Spring Bees" at Little Forest Pre-School (Decatur, GA)
- "Pollinator Power!" at The Museum School, 8th Grade Environmental Education class (Avondale)
- "Pollinator Power!" at Oak Grove Elementary, pre-K classes (DeKalb County)
- "Bee-Yond Honey Bees: Meet Your Native Bees" at Delta Kappa Gamma Society International, DeKalb County Women Educators' Honor Society

Educational School Presentations

At the heart of Beecatur's ongoing educational initiatives is programming related to bees and other pollinators presented to school-aged children. In March, we produced and presented a program called "What If There Were No Pollinators?" for second graders at Oakhurst Elementary. During Renfro Middle School's 7th Grade Spring Science Day in April, our program "Collaboration Means Working Together" looked at how honey bees maximize their abilities through teamwork. In May, we visited Westchester Elementary twice, talking about "Pollinator Power!" with the Kindergarten and 1st grade

classes there. "The Importance of Bees to our Ecosystem" was the topic discussed with 4th graders at F.Ave and, later in the year, 2nd graders at Glennwood. In October, we spoke with F.Ave's Lego Robotics Team to help them develop a team project related to bees and focused on creating more sustainable cities in the future. The superhero-themed talk "Marvel-ous Bees: Superheroes of the Natural World" was presented to 7th graders during Renfro Middle School's Fall Science Day in November. More than 600 students participated in these presentations.

POLLINATOR HEALTH & HABITAT



In 2019, we broke ground on a new pollinator garden on city property outside the entrance to the city's historic cemetery.



Proudly displaying our new Xerces Society Pollinator Habitat sign!



This black leafcutter bee seen at our Willow Lane habitat is a carpenter bee mimic.



Many of the plants installed this year were acquired with funds raised through our new Gifts That Grow giving program.



A new bed of native plants going in at Willow Lane.

The city's first set aside pollinator habitat (115 Willow Lane) has continued to flourish. Multiple work days were held at the site during 2019, including installation of new native plants purchased with funds from our Gifts That Grow donation program. A monthly "Wine & Weeding" program was begun to

Bee City USA Commitments

Pay initial application and annual renewal fees.

Fee Based on Population:

- <9,999 (\$100)
- 10,000 - 24,999 (\$200)
- 25,000 - 49,999 (\$300)
- 50,000 - 99,999 (\$400)
- >100,000 (\$500)



Photo: Jim Cairns / USDA-NRCS

Benefits of Affiliation

- Ensure survival of vital animal species including bees and other pollinators.
- Build community locally and nationally.
- Improve local food production and raise community awareness of how our food grows.
- Support small local businesses.
- Address pest problems with fewer pesticides using integrated pest management.
- Heighten awareness of biological diversity.

Apply



www.beecityusa.org/application-city

Application Process

- Form Committee
- Complete online application
- City council adopts resolution (following template), receive approval of highest elected official
- Pay application fee (scaled to population)

Learn More

www.beecityusa.org



Thank You

Questions?





ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

15 Research Drive
Amherst, Massachusetts 01002
Tel 413.256.0202 Fax 413.256.1092
www.swca.com

May 9, 2023

Katie Swan
City of Watertown Conservation Commission
Watertown Town Hall
149 Main Street, 3rd Floor
Watertown, MA 02472-4410

Re: Certificate of Compliance Request DEP File 321-0161

Dear Ms. Swan:

Thank you for contacting SWCA Environmental Consultants, Inc. (SWCA) regarding the filing of the Certificate of Compliance associated with the Order of Conditions issued by the Watertown Conservation Commission and Massachusetts Department of Environmental Protection (MassDEP), DEP File No. 321-0161 issued to the Trustees of Mount Auburn Cemetery on August 12, 2015. SWCA, formerly New England Environmental, Inc. (NEE) filed the associated Notice of Intent permit on behalf of Mount Auburn Cemetery for the repair and improvement of stormwater discharges on the northwestern shore of Willow Pond within the cemetery grounds in Watertown. This submission and accompanying documents (Attachment A - WPA Form 8A and Attachment B – Photo Pages) serve as the formal filing of the Certificate of Compliance request. The work has been satisfactorily completed per Special Conditions Section 14b.

New England Environmental, Inc. was acquired by SWCA in April 2016. The consultants who led this project and permit filing both left SWCA by 2018. Unfortunately, the filing of this request for Certificate of Compliance was overlooked during these events and this filing has not occurred until this time. SWCA did complete the construction of the improvement including the implementation of restoration plantings and has evaluated the improvement on a semi-annual basis since it was constructed in 2016.

SWCA has conducted annual maintenance of the stormwater improvement area semi-annually from the time that the improvement was constructed. We have worked with Mount Auburn Cemetery to ensure that the Operation and Maintenance of this improvement is completed to allow the device to function to its complete capacity. Per Condition 19c, Mount Auburn Cemetery acknowledges that they have legal responsibility for the implementation of the Operation and Maintenance Plan associated with the implemented stormwater improvements, in perpetuity.

SWCA and Mount Auburn Cemetery are requesting a site meeting with the Conservation Agent per Special Condition 14c of the Order of Conditions. During the meeting SWCA will respond to any questions regarding the construction activities associated with the improvement, site stability, or the ongoing operation and maintenance activities. Please feel free to contact me at sfisher@swca.com or at 413-658-2056 to arrange the site meeting. This submittal serves as a formal request to the Conservation Commission that a Certificate of Compliance be issued for this project to Mount Auburn Cemetery.



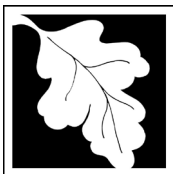
ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott Fisher". The signature is stylized with a large, sweeping initial "S" and a smaller "F".

Scott Fisher
Senior Office Director



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

321-0161

Provided by DEP

A. Project Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

1. This request is being made by:

Trustees of Mount Auburn Cemetery

Name

580 Mount Auburn Street

Mailing Address

Cambridge

City/Town

MA

State

02138

Zip Code

Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued to:

Trustees of Mount Auburn Cemetery

Applicant

08-12-2015

Dated

321-0161

DEP File Number

3. The project site is located at:

Mount Auburn Cemetery near Grove Street

Street Address

16

Assessors Map/Plat Number

Watertown

City/Town

21

Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:

Property Owner (if different)

Southern Middlesex

County

66020

Book

328

Page

Certificate (if registered land)

5. This request is for certification that (check one):

☒ the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

☐ the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

☐ the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

321-0161

Provided by DEP

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

☒ Yes

If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

☐ No

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>).

ATTACHMENT B

Project Photographs



Figure B-1. Pre-construction (April 2015) conditions of the project location.



Figure B-2. Installation of floating silt fence (September 2015).



Figure B-3. Construction of the stormwater improvement (October 2015).



Figure B-4. Stormwater improvement following stone placement (October 2015).



Figure B-5. Installation of plantings (October 2015).



Figure B-6. Preparation of sod bed prior to installation (October 2015).



Figure B-7. Final planting and sod placement. (Oct. 2015)



Figure B-8. Stormwater flow entering the improvement (October 2015).



Figure B-9. Stormwater improvement area 2016.



Figure B-10. Accumulated sediment in improvement prior to maintenance 2016.



Figure B-11. Sediment accumulation in improvement fall 2016.



Figure B-12. Improvement as seen during maintenance visit March 2021.



Figure B-13. Sediment removal in stormwater improvement area (March 2021).



Figure B-14. March 2022 stormwater maintenance.



Figure B-154. Sediment removal in stormwater improvement area (November 2022).



Figure B-165. March 2023 current status of improvement.



May 23, 2023

Ref: 14649.00

Watertown Conservation Commission
149 Main Street
3rd Floor
Watertown, MA 02472

Re: Request for Certificate of Compliance – Supplemental Materials
650 Pleasant Street – DEP File #321-0171

Dear Commissioners:

On behalf of Six Fifty Pleasant Street LLC, Vanasse Hangen Brustlin, Inc. (VHB) respectfully submits the attached supplemental materials as requested by the Commission and the Conservation Agent in order to issue a Certificate of Compliance (COC) for the ArrantaBio Manufacturing Facility at 650 Pleasant Street. A site walk was conducted with the Agent on May 11, 2023.

Accompanying this letter, please find the following documentation:

- Letter of Responsibility from ArrantaBio for continued implementation of the facility's O&M plan;
- The most recent records demonstrating ongoing BMP maintenance for the Stormceptor, catch basin, and Filterra system;
- Photographic documentation showing the on-site spill threat mitigation equipment;
- Photographic documentation showing the mowed side hill from January 9, 2023 and May 9, 2023;
- Photographic documentation, dated May 22, 2023, of the Filterra system with new gravel and loam and seed, as requested at the May 11th site walk;
- Photographic documentation, dated May 22, 2023, of the plantings within Riverfront Area and newly placed gravel to prevent erosion from foot traffic, as requested at the May 11th site walk;
- Earth Day photos of the trash removal performed within the Riverfront Area on the property; and
- DCR Monitoring Report, dated October 14, 2022, evaluating the Conservation Restriction on the property.

In addition to the above, the site remains in compliance with Condition 27 of the OOC, which requires a 75% establishment rate for the approved shrubs within the Riverfront Area after two years. The plantings within Riverfront Area were evaluated on May 11, 2023 by VHB. Three shrubs needing replacement will be planted by ArrantaBio this season as part of continued monitoring and replacement as necessary.

In compliance with Condition 38 of the OOC, ArrantaBio will continue to supply annual reports to the Commission confirming routine maintenance. Arrantabio has a computerized maintenance system in place which will require the

Request for Certificate of Compliance - 650 Pleasant Street
Ref: 14649.00
May 23, 2023
Page 2



stormwater systems to be inspected and cleaned on an annual basis. Although there are no direct discharge pipes from the site to nearby wetlands or the Charles River, the owner of the property will ensure routine maintenance of the BMPs, which will prevent negative impacts to water quality in the Charles River or sedimentation into wetlands from surface runoff leaving the site, to maintain compliance with Conditions 39 and 40 of the OOC.

Please review these records for your June 7, 2023 meeting of the Conservation Commission. Should you have any question concerning this submittal or require additional information, please contact me at (617) 607-6112.

Sincerely,

A handwritten signature in blue ink, appearing to read "Laura Laich", with a stylized flourish at the end.

Laura Laich
Senior Environmental Scientist

Attachments

Cc: Six Fifty Pleasant Street LLC

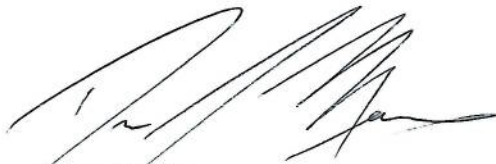
May 24, 2023

Watertown Conservation Commission
149 Main Street
3rd Floor
Watertown, MA 02472

Letter of Responsibility

As the lessee of 650 Pleasant Street (Watertown, MA) Arranta Bio MA LLC accepts the responsibility to operate and maintain all stormwater best management practices (BMPs) for the property in accordance with the Order of Conditions provided by MassDEP, File#: 321-0171. If at such time Arranta Bio MA LLC ceases to operate on the property, responsibility will default to the land and building owner, HSRE-WATERBIO, LLC. If the property is sold, operation and maintenance of the BMP's will become the responsibility of the landowner on record.

Survey plans indicate that the stormwater system is partially fed by a drain line from the adjacent property. Should a MassDEP-reportable release of petroleum and/or hazardous substances (see 310 CMR 40.0310) occur at the adjacent property and enter the stormwater system, assessment and cleanup of the release shall be the obligation of the Responsible Party (i.e., the person who is legally responsible for the release per 310 CMR 40.0000, the Massachusetts Contingency Plan). Release notification requirements are further specified in 310 CMR 40.0330.



Dean Morris
VP, Head of Operations
Arranta Bio MA, LLC



SEWER & DRAIN CLEANING

Invoice

#INV200777

04/27/2023

Bill To

ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472
United States

TOTAL: \$1,700.00

Amount Due: \$1,700.00

Due Date: 05/27/2023

Terms	Due Date	Date of Service	PO #	Sales Order
Net 30	05/27/2023	04/27/2023	P-MA-000009897	Sales Order #SO210541

Item	Amount
Vactored and disposed of the following:	\$1,700.00

One (1) Stormceptor water quality unit
Two (2) catch basins
One (1) sand trap

Cost to Complete Work: \$1100 plus disposal
Disposal of 2 Yards of Solids: \$600

Subtotal	\$1,700.00
Tax (0%)	\$0.00
Total	\$1,700.00
Amount Due	\$1,700.00

Name:

Job Site

ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472

1 of 1

Please detach and return with your payment

Pay online at
www.johnsewer.com
(781) 569-6695

Invoice #:
Date:
Balance Due:

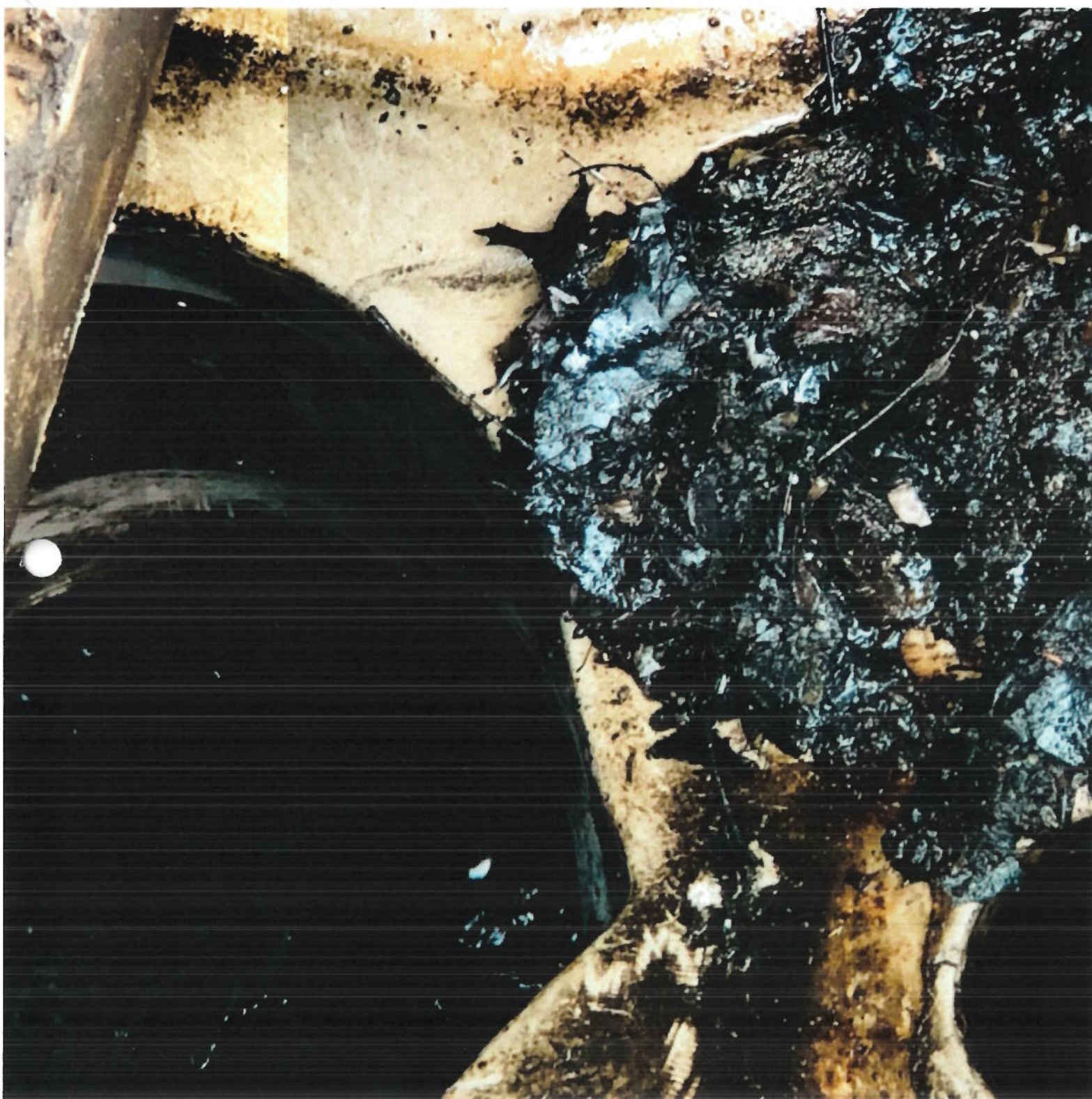
INV200777
04/27/2023
\$1,700.00



SEWER & DRAIN CLEANING

ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472
United States

Remit to: John's Sewer & Pipe Cleaning
4 Breed Avenue
Woburn MA 01801









SEWER & DRAIN CLEANING

Invoice

#INV200777

04/27/2023

Bill To

ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472
United States

TOTAL: \$1,700.00

Amount Due: \$1,700.00

Due Date: 05/27/2023

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ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472

1 of 1

Please detach and return with your payment

Pay online at
www.johnsewer.com
(781) 569-6695

Invoice #:
Date:
Balance Due:

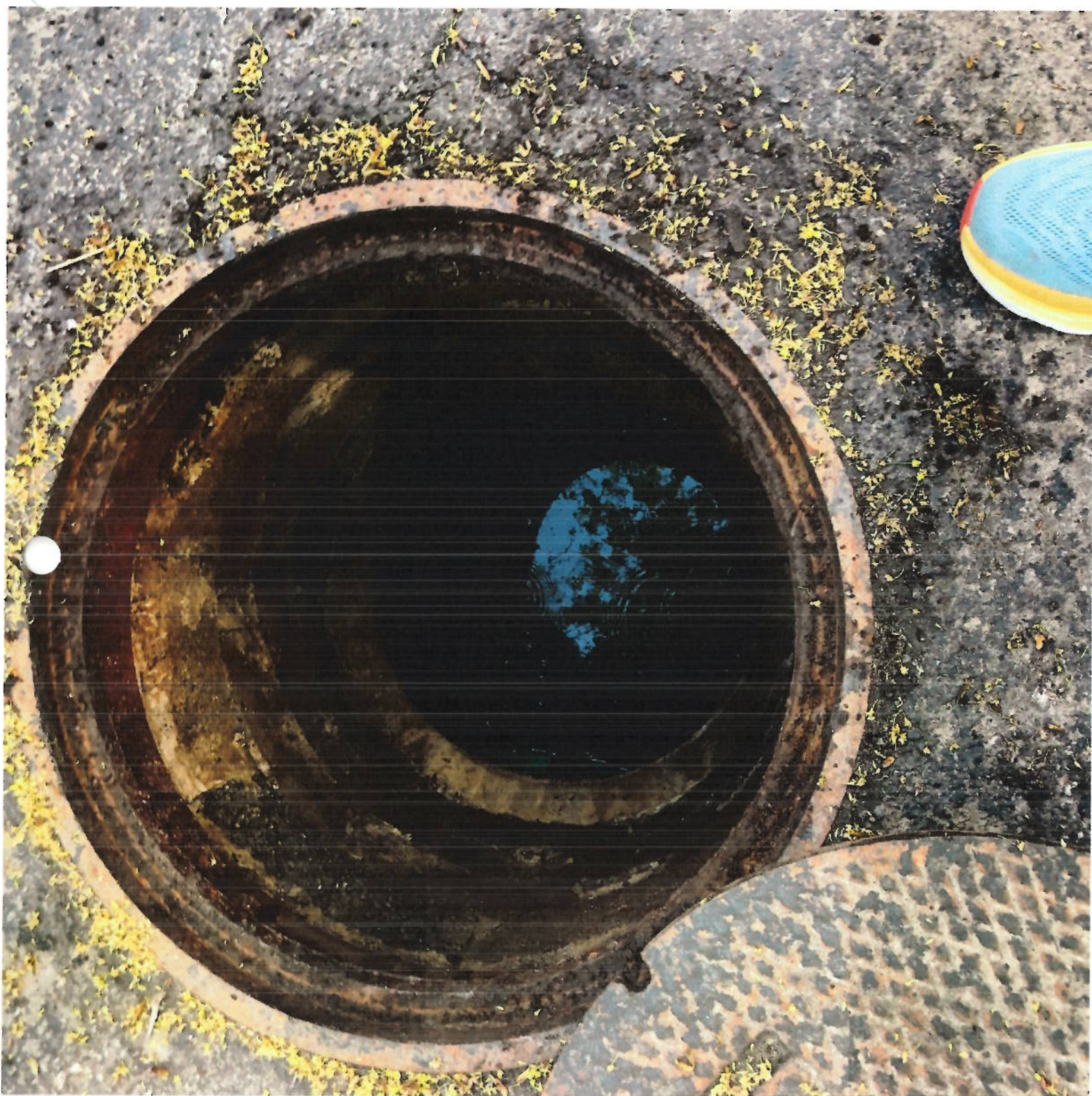
INV200777
04/27/2023
\$1,700.00

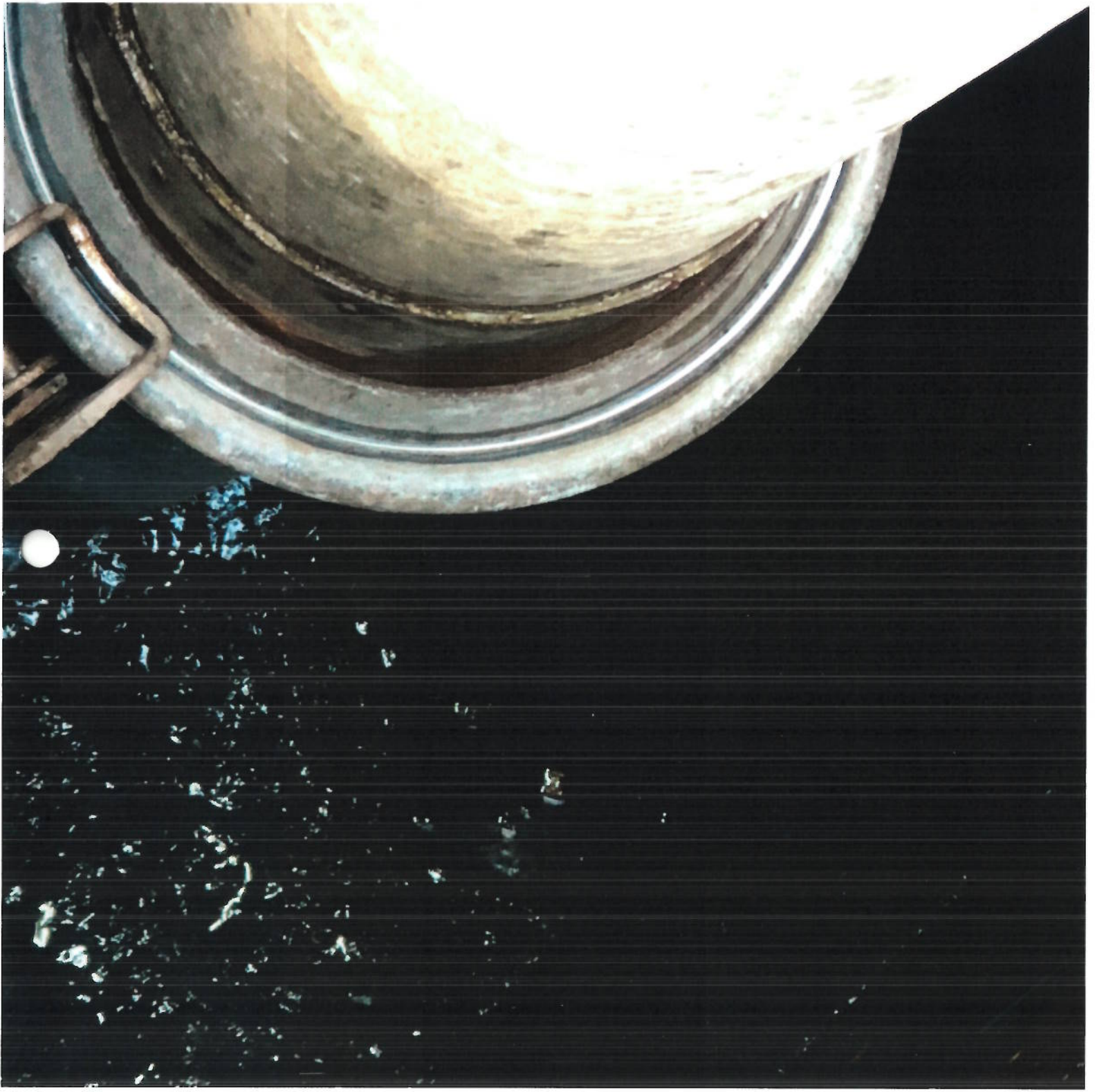


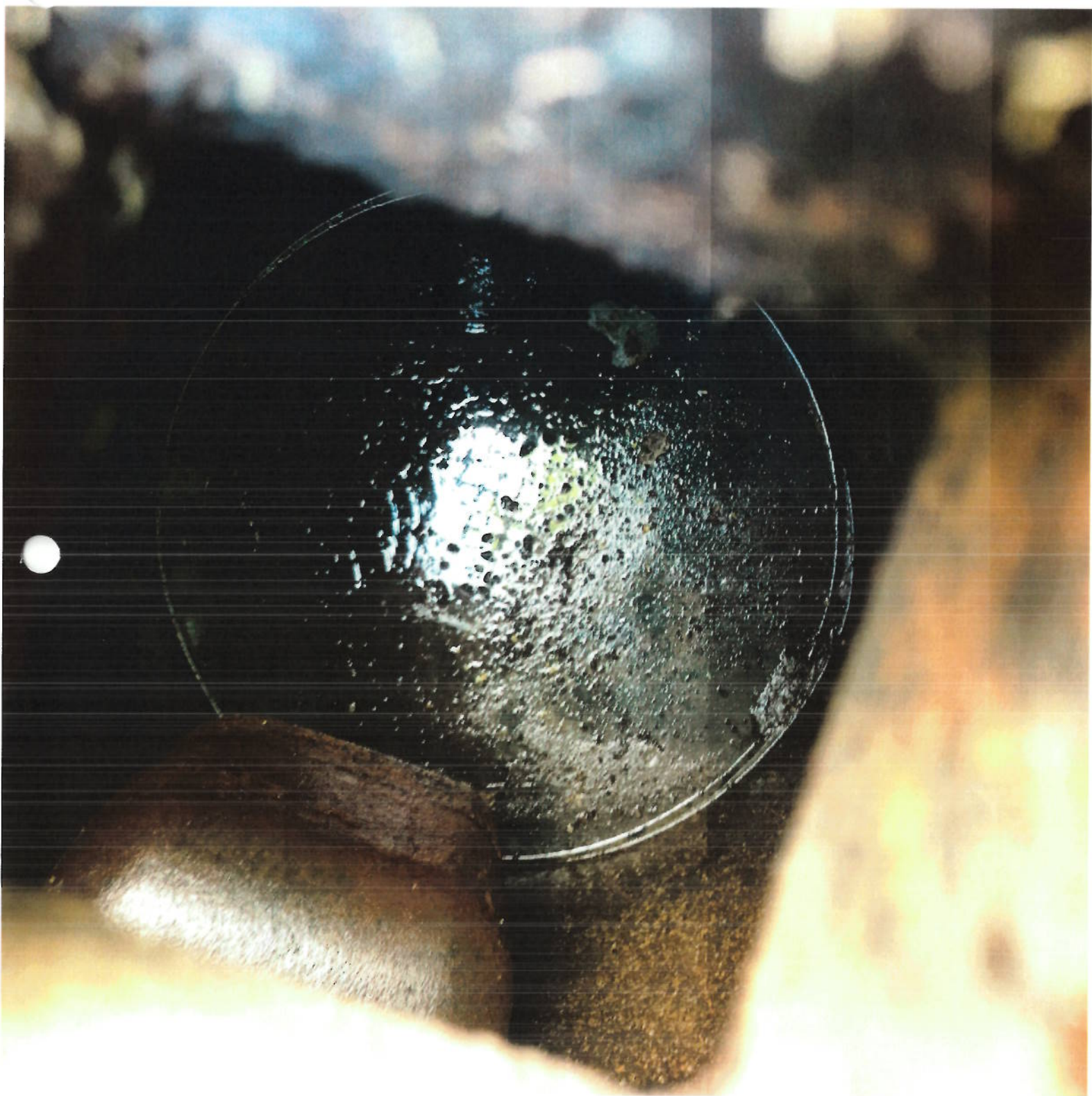
SEWER & DRAIN CLEANING

ARRANTA BIO
650 PLEASANT ST
WATERTOWN MA 02472
United States

Remit to: John's Sewer & Pipe Cleaning
4 Breed Avenue
Woburn MA 01801









Maintenance Checklist

Drainage System Failure	Problem	Conditions to Check	Condition that Should Exist	Actions
Inlet	Excessive sediment or trash accumulation.	Accumulated sediments or trash impair free flow of water into Filterra.	Inlet should be free of obstructions allowing free distributed flow of water into Filterra.	Sediments and/or trash should be removed.
Mulch Cover	Trash and floatable debris accumulation.	Excessive trash and/or debris accumulation.	Minimal trash or other debris on mulch cover.	Trash and debris should be removed and mulch cover raked level. Ensure bark nugget mulch is not used.
Mulch Cover	"Ponding" of water on mulch cover.	"Ponding" in unit could be indicative of clogging due to excessive fine sediment accumulation or spill of petroleum oils.	Stormwater should drain freely and evenly through mulch cover.	Recommend contact manufacturer and replace mulch as a minimum.
Vegetation	Plants not growing or in poor condition.	Soil/mulch too wet, evidence of spill. Incorrect plant selection. Pest infestation. Vandalism to plants.	Plants should be healthy and pest free.	Contact manufacturer for advice.
Vegetation	Plant growth excessive.	Plants should be appropriate to the species and location of Filterra.		Trim/prune plants in accordance with typical landscaping and safety needs.
Structure	Structure has visible cracks.	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through the cracks.		Vault should be repaired.

Maintenance is ideally to be performed twice annually.

Filterra Inspection & Maintenance Log

Filterra System Size/Model: 8-6'

Location: Arrantabio Parking lot left rear

Date	Mulch & Debris Removed	Depth of Mulch Added	Mulch Brand	Height of Vegetation Above Top of Vault	Vegetation Species	Issues with System	Comments
6/15/22	10 - 5 gal buckets	3"		3-4'	Magnolia	Tree died, system over flowing	Removed silt laden mulch, trash, replaced tree, added new mulch, Work complete by Arrantabio and Nicolazzo
9/26/22	1 - 5 gallon bucket	0"		4 - 4.5'	Magnolia	N/A	Removed leaves and trash. Inspected.
4/22/23	5 - 5 gal buckets	3"		4.5'	Magnolia	Tree died	Tree scheduled to be replaced
5/2/23	N/A	N/A		4.5'	Magnolia	Dead Tree	Tree Replaced by Nicolazzo







Arranta Bio further mitigates the threat of releases from the stormwater system by having access to storm drain covers and spill cleanup equipment located inside the loading dock door with instructions.

Please see attached photos.



How To Use The Ultra-Drain Seal®

Protective cover for drains, grates and manholes against accidental spills.

Follow these easy steps to assure maximum effectiveness:

1. Make sure the Ultra-Drain Seal® is the correct size.

For best results, use a Ultra-Drain Seal® which is 6" larger than the outside of the grate.

2. Apply the Ultra-Drain Seal®.

- Remove all stones, branches, or other debris off the object you desire to cover.
- Remove the plastic film from the Ultra-Drain Seal® and remember to keep it to re-apply before storage.
- Place the Ultra-Drain Seal® over the drain, grate, or manhole you desire to seal.
- To gain a faster seal you may step on the DrainSeal®. Never attempt this after spill has reached the drain.

3. Always decontaminate the Ultra-Drain Seal® before reuse or storage.

- Wash the Ultra-Drain Seal® and its plastic film in warm water with a non-abrasive detergent or petroleum solvent cleaner.
- Dry both the Drain Seal® and plastic film with a cloth and re-apply the plastic film to the Drain Seal®.
- Using the tube provided, roll up the Drain Seal® and place it back into the box for storage.
- Store the Ultra-Drain Seal® out of direct sunlight, and at room temperature.

IMPORTANT NOTES:

- Never allow the Ultra-Drain Seal® to touch itself for long periods of time.
- The Ultra-Drain Seal® will become less flexible if stored in cold temperatures.
- Due to the nature of softer urethane, the physical properties of these products may change with exposure to certain environmental conditions like temperature, humidity and UV radiation. Please inspect the stored product regularly to ensure it is in a usable state.
- Not intended for long-term outdoor use (more than two (2) hours), as UV exposure and/or heat for extended periods can degrade the product. For applications where extended use may be required, the Ultra-Drain Seal Plus® should be considered.



Ultra-Drain Seal®

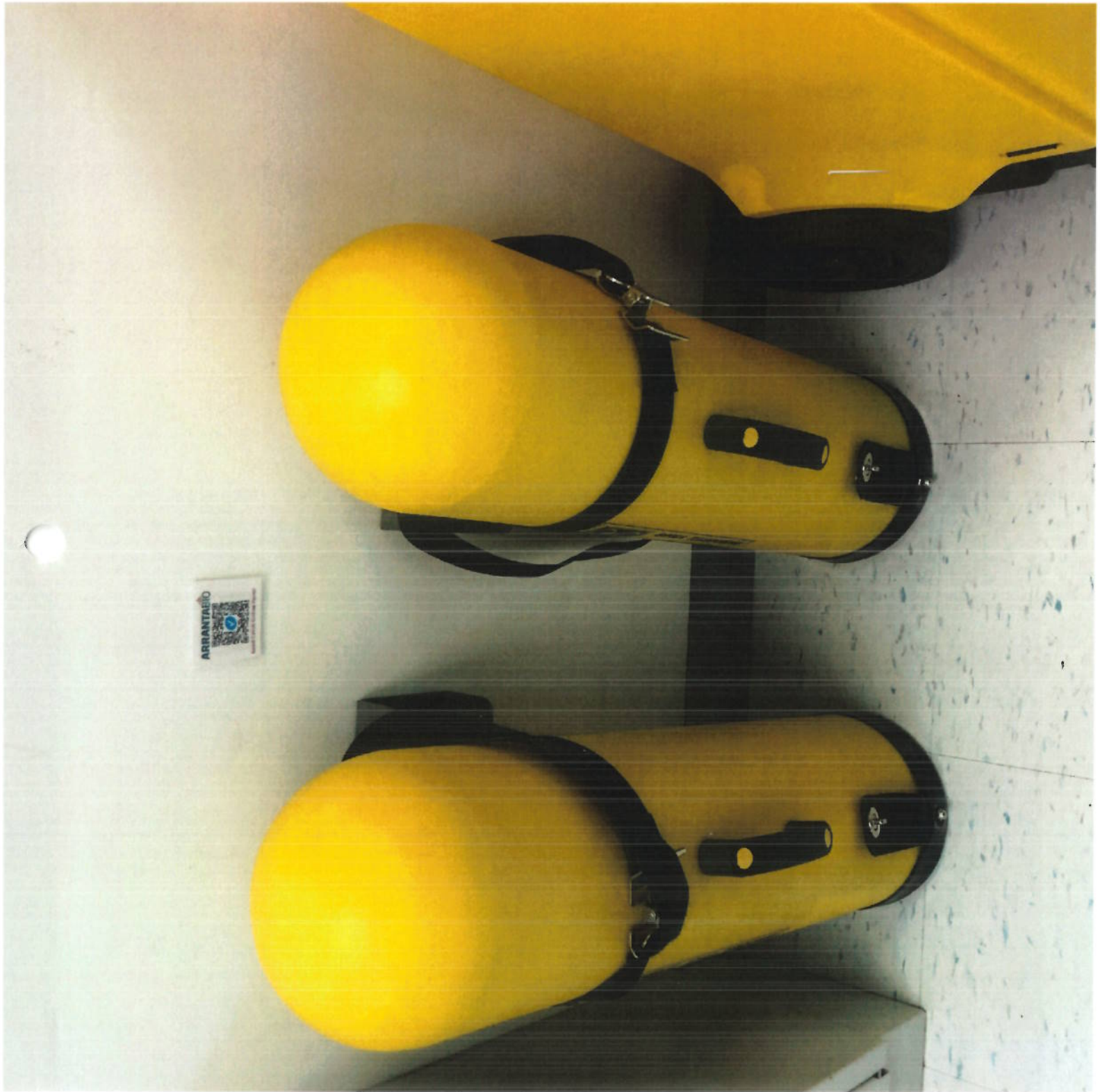
These chemicals are compatible for use with Ultra-Drain Seal:

Acetone*	(Med. Conc.)
Aluminum Salts	Hydrogen Peroxide
Ammonia	Kerosene
Barium Salts	Methyl Alcohol
Benzyl Alcohol	Methyl Ethyl Ketone*
Boric Acid Sol.	(MEK)
Butane	Methylene Chloride*
Butanol	Naptha
Calcium Salts	Nitrogen Oxides
Carbon Dioxide	Oil, Mineral
Chloroform*	Phenol
Chloroethane VG	Sodium
Copper Salts	Sulfuric Acid
Cyclohexanone	(Med. Conc.)
Formaldehyde	Tetrahydrofuran (THF)
Freon	Toluene
Gasoline	Trichloroethylene*
Glycol Ether	Triethylamine
Hydrochloric Acid	Tropylene Glycol
(Med. Conc.)	Turpentine
Hydrofluoric Acid	Water

* Will cause the Ultra-Drain Seal® to swell temporarily but not degrade.



Ultra-Drain Seal helps seal off drains to minimize problems!





8/2/11



5/9/23



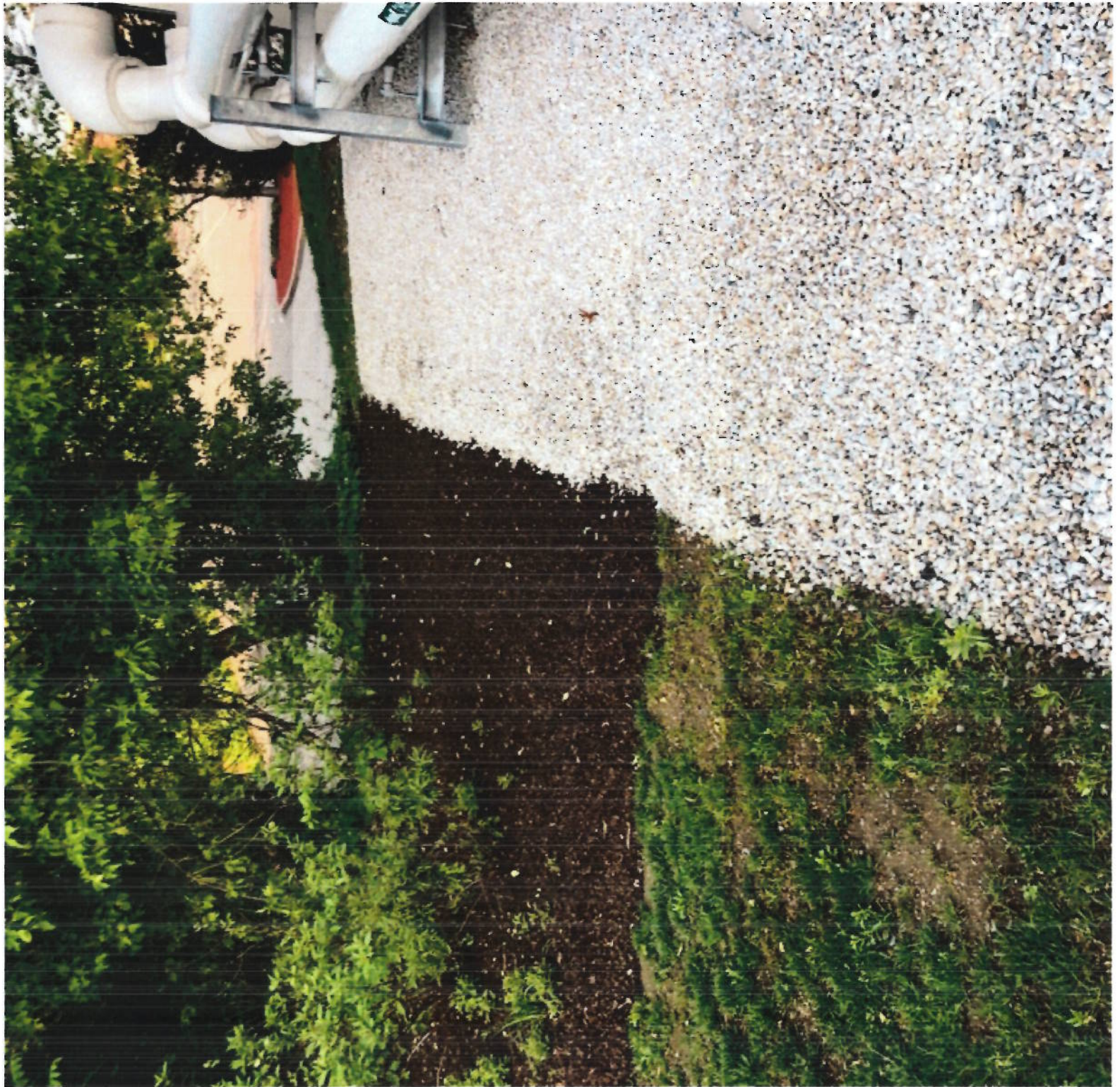
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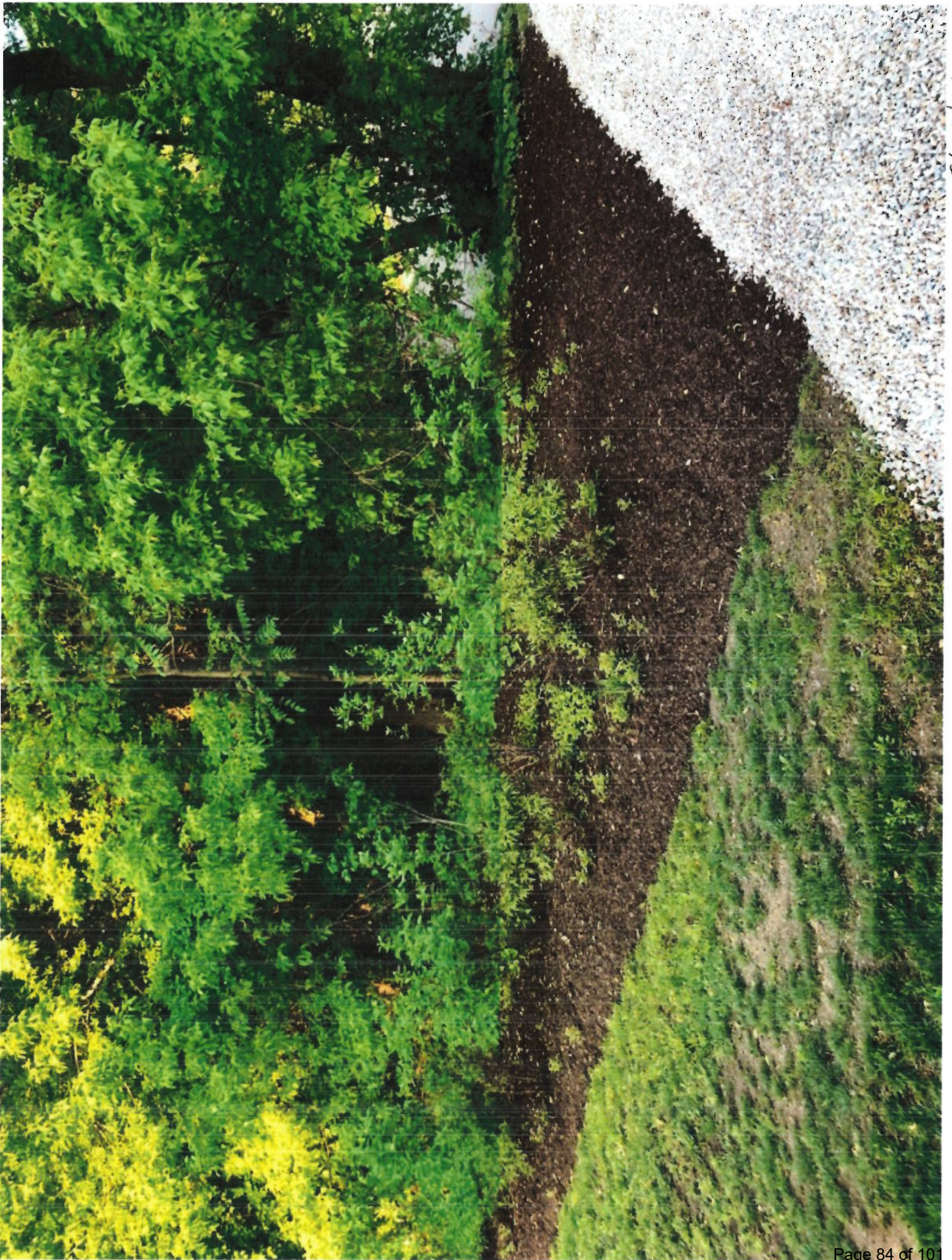


5/22/23



5/22/23





5/28/23

Arranta Bio celebrated Earth Day 2023 by hosting a month full of events, following this years' theme to "Invest in Our Planet".

- We educated employees on the importance of composting and eliminating food waste from our landfill waste stream. We raffled off a compost tumbler to participating employees so they could compost at home.
- A seed planting got employees together to start some plants and talk about growing their own flowers and vegetables.
- Employees spent the morning outside, picking up litter at the back of the property and along the Charles River Greenway. These 20 volunteers ultimately picked up 36 bags of trash!
- Approximately 70 employees attended a "Lunch and Learn" event to discover what really happens to our recycling once it's picked up by the waste hauler. This was eye opening for many and sparked a lot of conversation and the waste hauler was able to answer questions about what could and couldn't be recycling.



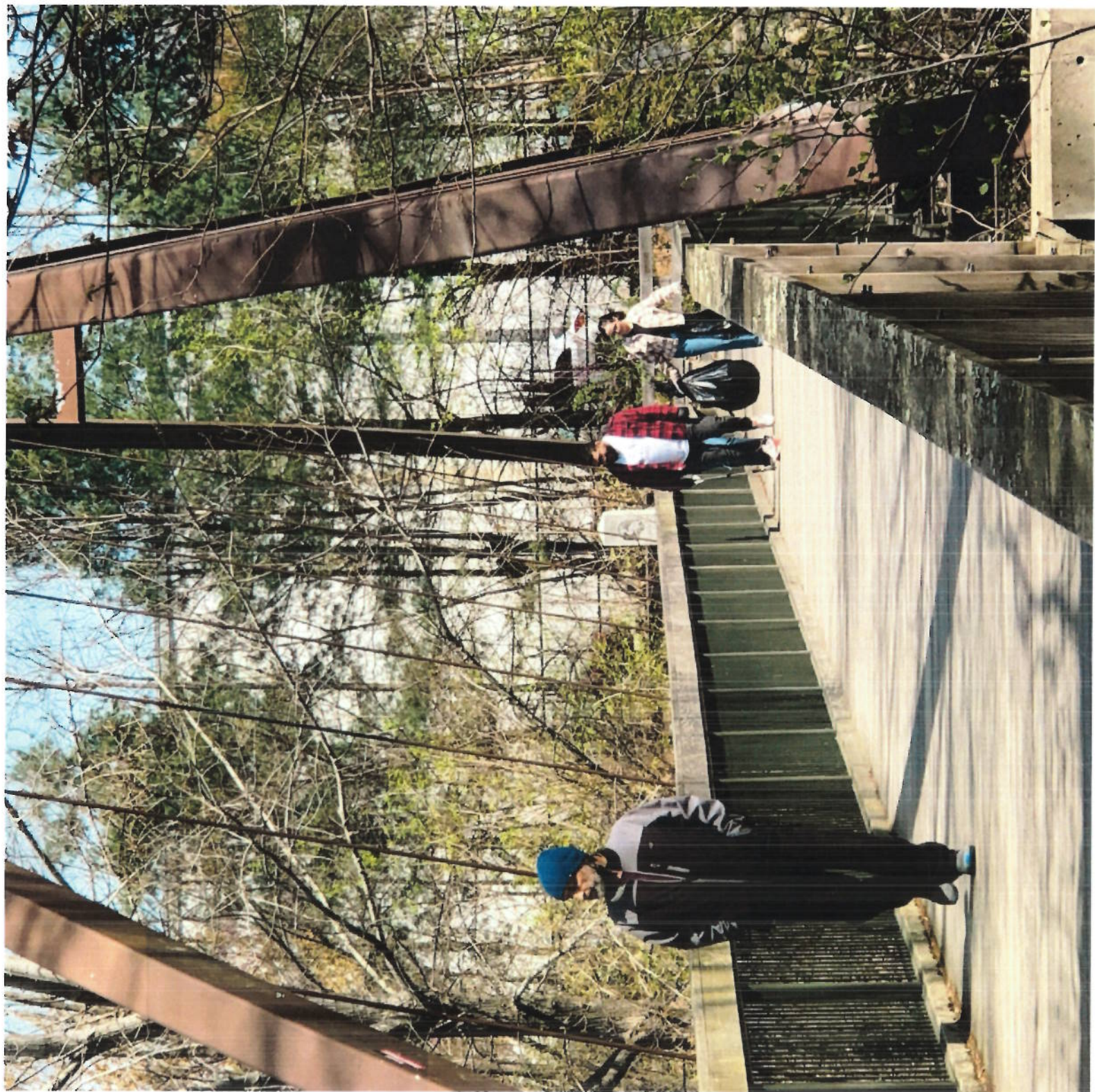
4/21/23



4/21/23



4/21/23



4/21/23



4/21/23



4/21/23

Boston Scientific Corp, P-000110
Conservation Restriction Monitoring Report



MONITORING VISIT INFORMATION

Site Visit Date: October 14, 2022

Arrival Time: 10:30 **Departure Time:** 11:30

Travel Time: 2 hours

Weather & Ground Conditions: Rain; Wet

Monitor: Caroline Raisler

Other DCR Staff Attending: None

Landowner or Representative Attending:

Other Attendees at Site Visit, and Affiliations: Michael McKeeney, Julie Foisy, Brad Londot – representatives of ArrantaBio, who leases the site.

BACKGROUND INFORMATION

Property Address: Pleasant Street - Watertown

Notes about Directions or Access to Property: 650 Pleasant Street (CR is behind building)

Acreage: 0.66

LANDOWNER INFORMATION

Current Owner(s):

Has ownership changed since last monitoring visit? ☒ Yes ☐ No

Current Owners: HRSE – Waterbio, LLC

Primary Contact:

HRSE – Waterbio, LLC

C T Corporation System

155 Federal Street

Suite 700

Boston, MA 02110

Owner's representative: Rob Brierly rmb@bulfinch.com, 857-214-1743

Secondary Contact:

Tenant, ArrantaBio

Michael McKeeney, Facilities Manager

617-590-2320

Michael.mckeeney@arrantabio.com

LANDOWNER CONTACT & QUESTIONS:

Was owner contacted prior to visit? ☒ Yes ☐ No

During the monitoring visit, the landowner or representative: Walked with the monitor

Landowner questions:

Has anything changed on the property? No.

Do you have any question about the Restriction? Yes. As new tenants of a new owner, they had many questions about the CR, which I answered.

Do you have any new land management plans? No.

Do you have any plans to sell the property? No.

Have you encountered any difficulties with the public or public access? Yes. The public frequently dumps trash on the property. It is a very popular walking/biking trail. They have 24 hour security and cameras facing back into the parking lot. They have their employees pick up trash on the CR and they also blow leaves off of the walking path.

On Earth Day, ArrantaBio employees participated in the DCR Charles River Cleanup. Many employees walk to work along the path on the CR.

FORESTRY OR CONSERVATION PLANS:

Have any Forestry Plans, Conservation/Farm Plans, or other Management Plans been submitted for the property? ☐ Yes ☒ No

PUBLIC USE & ACCESS

Is public access allowed under the terms of the CR? ☒ Yes ☐ No ☐ Limited

Summary of Restriction language relevant to condition: II.A. Grantor grants to Grantee

"nonexclusive right and easement to use, maintain, repair, renovate and rehabilitate the Premises for passive outdoor recreational activities." II.B. Grantor and/or Grantee "may build such park improvements (e.g. paths, benches, landscaping, etc.) and install such utilities as the Grantee shall consider appropriate... in connection with passive, outdoor recreational activities." III.A. "Grantee shall cause there to be provided adequate security and maintenance at the park facility located at the Premises, which shall include regular patrols of the Premises by MDC park rangers or successor MDC park police... whose duties shall include, but not be limited to, discouraging the public from the unauthorized use of the remaining land of the Grantor."

History of condition – at baseline: Property contains a very active bike/walking trail that crosses the property E to W. The trail appears to be used heavily by the public. During this site visit many people were observed walking along the trail.

History of condition – at prior monitoring visits: N/A

Did the landowner or representative make any report regarding public use and access? Yes

If yes, please describe: They report it is frequently used and enjoyed by the public. Some ArrantaBio employees also use the trail to commute to work.

Did you observe any public use on this visit? Yes

If yes, please describe use: Many walkers, dog walkers, and bikers

Did you observe any changes to public use or access on this visit? No

Comments: N/A

Did you take photos relating to public use or access? Yes

PROPERTY CONDITIONS OF INTEREST OBSERVED ON PAST VISITS:

Condition Title: Drainage outflow

Summary of Restriction language relevant to condition: N/A

History of condition – at baseline: Drainage outflow near SW corner that appears to be in good condition.

History of condition – at prior monitoring visits: N/A

Did the landowner or representative make any report regarding this condition? Yes

If yes, please describe: They reported that they maintain the drainage outflow from their parking lot with a filter system before it goes down the storm drain. They also have storm drain covers to put on in case of emergency release.

Did you observe any part of the property with this condition on this visit? Yes

If yes, did you observe any changes to this condition on this visit? No

Comments: N/A

Did you take any photographs showing this condition? Yes

Condition Title: Invasive Plants

Summary of Restriction language relevant to condition: None

History of condition – at baseline: Numerous invasive plants observed including: Tree of heaven, multiflora rose, ornamental bittersweet, common buckthorn, and Japanese knotweed.

History of condition – at prior monitoring visits: N/A

Did the landowner or representative make any report regarding this condition? No

Did you observe any part of the property with this condition on this visit? Yes

If yes, did you observe any changes to this condition on this visit? No

Comments: Invasive plants are still present.

Did you take any photographs showing this condition? No

Condition Title: 2 picnic tables, trash, erosion control fabric, asphalt waste, metal cable

Summary of Restriction language relevant to condition: H.D. "No soil or other substance or material shall be placed or dumped on the Premises as landfill and no trash, waste, or unsightly or offensive materials shall be placed or dumped thereon."

History of condition – at baseline: Along the N boundary of the easement, there is an area that contains two picnic tables and some trash. This appears to be an employee break area. Some of the trash and part of the tables are within the Easement itself. What appears to be erosion control fabric was observed along the river bank. Additionally, there are numerous portions of asphalt waste, likely from past construction, strewn throughout the easement area. A metal cable was observed wrapped around a large branch of a tree and hanging down to the ground. The trash/refuse on the property is something that the landowner has been unable to control and does not come from their employees. The landowner cleans the property and at times has to remove trash that doesn't belong to them. For example, according to the landowner, the chairs on the property are not owned by them.

History of condition – at prior monitoring visits: N/A

Did the landowner or representative make any report regarding this condition? Yes

If yes, please describe: They reported that they have an employee whose job duties include regularly picking up trash in the parking lot and occasionally picking up trash in the CR area. Employees also participated in DCR's Charles River cleanup on Earth Day, picking up a lot of trash.

Did you observe any part of the property with this condition on this visit? Yes

If yes, did you observe any changes to this condition on this visit? Yes

If yes, please describe changes: The "employee break area" is now just a clearing- no more picnic tables, chairs, or trash. The erosion control fabric and asphalt waste near the river were still present. Otherwise, I observed no trash on the property.

Did you take any photographs showing this condition? Yes

Condition Title: Walking trail crossing property E-W, with bridge over drainage ditch

Summary of Restriction language relevant to condition: II.B. The Grantor and/or Grantee may build such park Improvements (e.g. paths, benches, landscaping, etc.) and install such utilities as the Grantee shall consider appropriate for the use of the Grantee and those persons referred to in the preceding paragraph in connection with passive, outdoor recreational activities."

History of condition – at baseline: The property contains a very active bike/walking trail that crosses through the property E to W. Part of this trail consist of a raised wooden bridge-like construction that allows for a drainage ditch to pass beneath it.

History of condition – at prior monitoring visits: N/A

Did the landowner or representative make any report regarding this condition? Yes

If yes, please describe: They reported that they sometimes use a leaf blower to clear off the trail to make it easier for people to enjoy. They don't think people are accessing the rest of their property via the trail or accessing the trail via their property.

Did you observe any part of the property with this condition on this visit? Yes

If yes, did you observe any changes to this condition on this visit? No

Comments:

Did you take any photographs showing this condition? Yes

NEW PROPERTY CONDITIONS OF INTEREST OBSERVED ON THIS VISIT:

Did you observe any new or not previously documented man-made changes, natural changes, activities related to Reserved rights, Prohibited Uses, or third-party issues? ☐ Yes ☒ No

GENERAL PROPERTY CONDITIONS:

Road Frontage:

Summary of past conditions of road frontage: This property has no road frontage.

Did you walk or drive the road frontage? N/A

If yes, did you observe any changes to the condition of the road frontage? N/A

Did you take any photographs showing the road frontage? No

External Boundaries:

Summary of past conditions of external boundaries: E corner is marked by a metal pole in the river. boundary extends SE following the river to the S corner (unmarked). The boundary then turns NNE 65 feet to an iron pin. Boundary then extends in the same direction approximately 169 feet along a boundary that is partially unmarked and partially indicated by a parking lot guardrail, to the NE corner (marked by an IP set next to a chain link fence). Boundary then turns WNW and extends approximately 290 feet (unmarked) to the N corner (IP and concrete property marker). Boundary then turns SSW, extends 80 feet to an IP. Boundary continues past that IP approximately 40 feet back to the E corner.

Did you walk or drive the external boundaries? Yes

If yes, did you observe any changes to external boundary conditions? No.

Did you take any photographs showing external boundary conditions? Yes.

Exclusion Boundaries:

Summary of past conditions of exclusion boundaries: The easement is part of a larger property. The boundary between the easement and the rest of the property is not marked. However, the corners of the easement are marked and a straight line between those corners is the boundary.

Did you walk the exclusion boundaries? Yes

If yes, did you observe any changes to exclusion boundary conditions? Yes. The “employee break area” that had been along the exclusion boundary is now just a clearing- no more picnic tables, chairs, or trash.

Did you take any photographs showing exclusion boundary conditions? Yes.

Abutting Property Use:

Summary of past conditions of abutting property use: The W boundary of the easement abuts the Charles River Reservation, owned by DCR. The S boundary abuts the Charles River Reservation and the river itself. The southern approximately 65 feet of the E boundary abuts the Massachusetts Gas & Electric conservation easement P-000563 (DCR-P2002-31), held by the DCR and part of a privately held parcel. The remainder of the E boundary abuts a parking lot behind 610 Pleasant St. There is a guardrail separating the parking lot from the easement and there are tires stacked up against the guardrail on the parking lot side (see photo #14). The N boundary abuts the remainder of 650 Pleasant St.

Did you observe any changes to abutting property use on this visit? No.

Did you take any photographs showing abutting property use? No.

Follow-up to Monitoring Visit:

Follow-up Needed? ☐ Yes ☒ No

Signature of Monitor: _____



Date: 12/30/2022

Name of Monitor: Caroline Raisler

Title of Monitor: CR Stewardship Coordinator

CR - Monitoring Map



12/22/2022, 2:48:54 PM

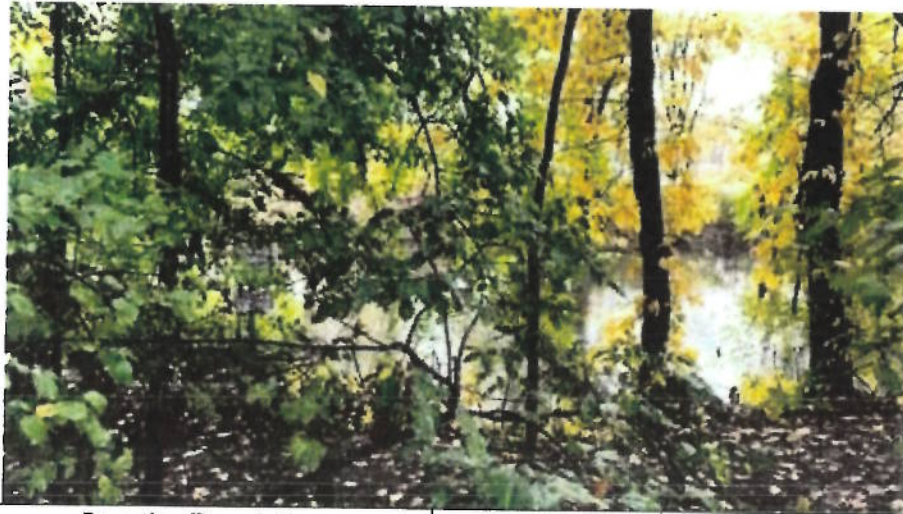
0 0.01 0.02 0.03 0.04 0.05 mi
0 0.02 0.04 0.08 km
City of Newton, City of Waltham, MassGIS, Esri, HERE, Garmin, ICREME/IT P., USGS, EPA, USDA
DCR State Parks - CR Stewardship Program
Commonwealth of Massachusetts Office of Geographic Information (MassGIS) |

2022 DCR CR Monitoring

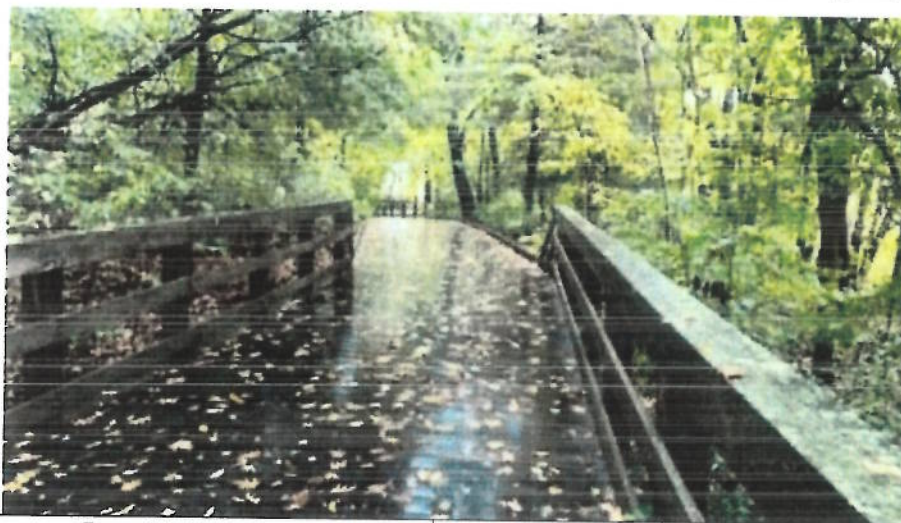
Boston Scientific Corp CR Property Boundary

City of Newton, City of Waltham, MassGIS, Esri, HERE, Garmin, ICREME/IT P., USGS, EPA, USDA | MassGIS, Executive Office of Energy and Environmental Affairs, Commonwealth of Massachusetts Office of Geographic Information (MassGIS) |

Documentary Ground Photographs Taken by Caroline Raisler on October 14, 2022, using iPad & EOS Arrow GPS



WP #	Photo #	Location Description	File Name	Direction	Photo Description
1	1	At a corner [iron pin or pipe]	Image-20221014-150332.jpg	SW	Along boundary [no landmarks]. CR on left; other protected land on right. Photo also shows Town of Watertown storm drain outlet, Charles River.

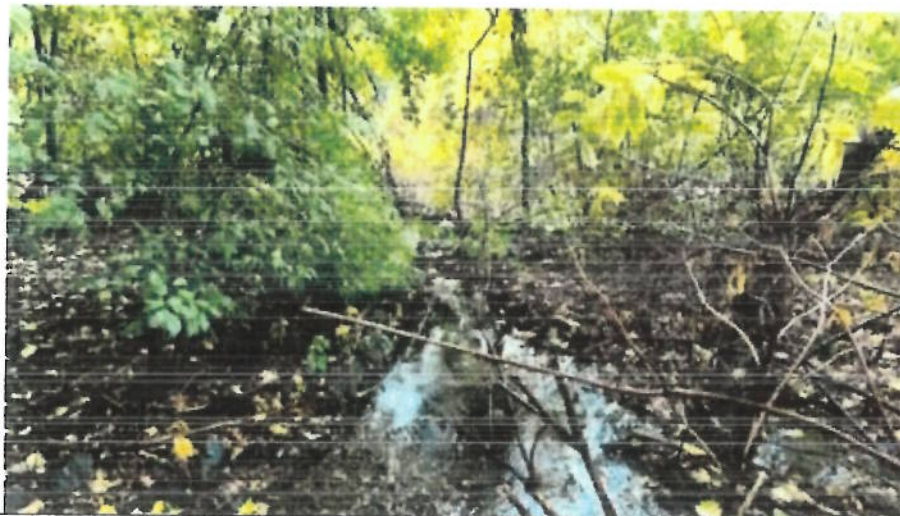


WP #	Photo #	Location Description	File Name	Direction	Photo Description
1	2	At a corner [iron pin or pipe]	Image-20221014-151525.jpg	SE	Into or of CR; Biking/walking path/bridge into property.

Documentary Ground Photographs Taken by Caroline Raisler on October 14, 2022, using iPad & EOS Arrow GPS

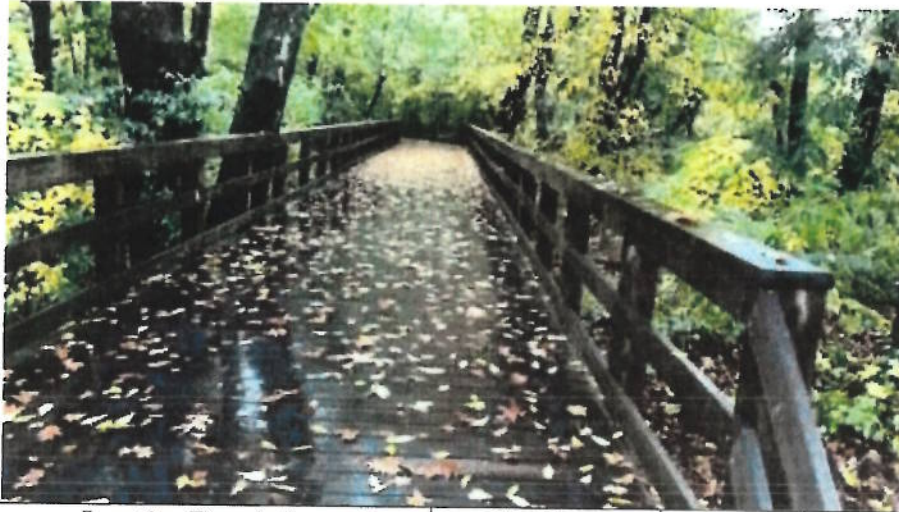


WP #	Photo #	Location Description	File Name	Direction	Photo Description
2	3	At a point inside of the CR	Image-20221014-150916.jpg	NE	Into or of CR; Storm drain drainage under bridge/path.



WP #	Photo #	Location Description	File Name	Direction	Photo Description
2	4	At a point inside of the CR	Image-20221014-150951.jpg	S	Into or of CR; Storm drain drainage going into Charles River.

Documentary Ground Photographs Taken by Caroline Raisler on October 14, 2022, using iPad & EOS Arrow GPS



WP #	Photo #	Location Description	File Name	Direction	Photo Description
3	5	At a point outside of the CR	Image-20221014-151223.jpg	NW	Into or of CR; Along path heading into CR.



WP #	Photo #	Location Description	File Name	Direction	Photo Description
4	6	At a point along the boundary [Edge of parking lot]	Image-20221014-152227.jpg	S	Into or of CR; Cleared area where there used to be picnic tables and refuse ("employee break area"). Now empty, no trash.

Conservation Restriction Monitoring Photography Affidavit

I, Caroline Raisler, hereby certify that:

I am employed by the Commonwealth of Massachusetts, Department of Conservation and Recreation, and my job duties include monitoring properties subject to conservation restrictions ("CR") held by the Massachusetts Department of Conservation and Recreation;

That on October 14, 2022, I visited the Boston Scientific Corp CR property located at Pleasant Street - Watertown and took documentary ground photographs ("the Photographs") with the following file names:

Image-20221014-150332.jpg

Image-20221014-151525.jpg

Image-20221014-150916.jpg

Image-20221014-150951.jpg

Image-20221014-151223.jpg

Image-20221014-152227.jpg

The photographs, attached hereto, together with accompanying descriptions and photo location and route map, fairly and accurately depict the property as it appeared on the date the photographs were taken.

Signature of Photographer:



Date: 12/30/22

Name of Photographer: Caroline Raisler

Title of Photographer: CR Stewardship Coordinator