

# Agenda

## Environmental Protection Commission

Tuesday, August 20, 2024

Teleconference: 631-618-4607 PIN: 484 733 354#

Video Conference: <https://meet.google.com/rzo-uidn-tvg>

6200 Park Ave, Des Moines, IA 50321

Walnut Woods Conference Room

**Tuesday, August 20, 2024**

**10:00 AM – EPC Business Meeting**

If you are unable to attend the business meeting, comments may be submitted for public record to Alicia Plathe at [Alicia.Plathe@dnr.iowa.gov](mailto:Alicia.Plathe@dnr.iowa.gov) or 6200 Park Ave, Des Moines IA 50321 up to 24 hours prior to the business meeting.

1	Approval of Agenda	
2	Approval of the Minutes	
3	Monthly Reports	Ed Tormey (Information)
4	Director's Remarks	Kayla Lyon (Information)
5	Amendment to a Contract with Stantec Consulting Services Inc.- Program Management and Communication, Outreach, and Mitigation Strategies for Floodplain Mapping Services	Kathryne Clark (Decision)
6	Amendment to a Contract with AECOM Technical Services, and Contract Amendment to a Contract with AtkinsRealis USA, Inc.-Floodplain Mapping Services	Kathryne Clark (Decision)
7	Amendment to a Contract with The University of Northern Iowa GeoTree Center-GIS Services	Kathryne Clark (Decision)
8	Water Supply Water Use and Allocation Annual Permit Fee	Carmily Stone (Decision)
9	Amendment to a Contract with Stearns, Conrad and Schmidt Consulting Engineers, Inc.-Sustainable Materials Management-Vision for Iowa Initiative	Tom Anderson (Decision)
10	Contract with Black Hawk Soil and Water Conservation District-Iowa Underserved Farmer and Farm Community Subaward	Steve Konrady (Decision)
11	Contract with Polk County Conservation Board-Easter Lake Watershed Improvements 2025-2027	Kyle Ament (Decision)
12	General Discussion	
13	Upcoming Meetings	
	<ul style="list-style-type: none"><li>• Tuesday, September 17, Des Moines</li><li>• Tuesday, October 15, Des Moines</li></ul>	

For details on the EPC meeting schedule, visit <http://www.iowadnr.gov/About-DNR/Boards-Commissions>

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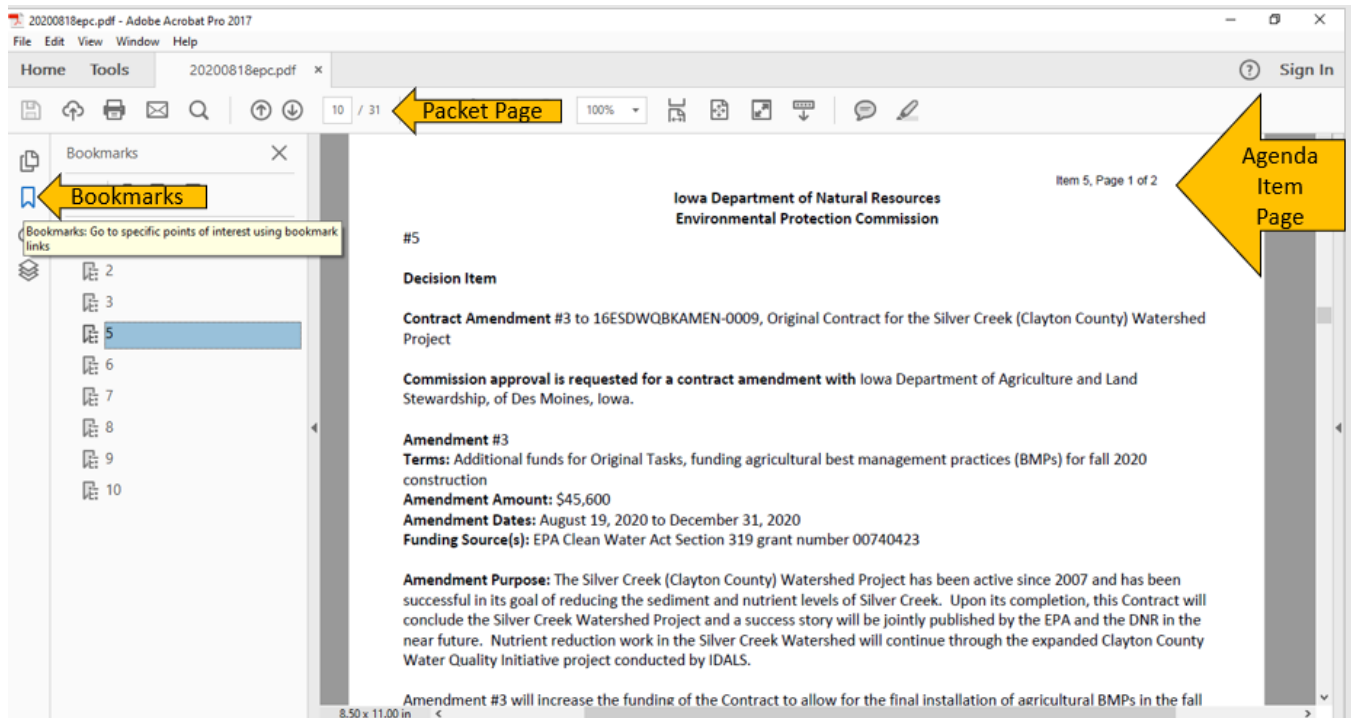
<sup>1</sup>Comments during the public participation period regarding proposed rules or notices of intended action are not included in the official comments for that rule package unless they are submitted as required in the Notice of Intended Action.

*Any person with special requirements such as those related to mobility or hearing impairments who wishes to participate in the public meeting should promptly contact the DNR or ADA Coordinator at 515-725-8200, Relay Iowa TTY Service 800-735-7942, or [Webmaster@dnr.iowa.gov](mailto:Webmaster@dnr.iowa.gov) to advise of specific needs.*

Updated 12/2023

Utilize bookmarks to transition between agenda items or progress forwards and backwards in the packet page by page with the Packet Page number on the agenda.

The upper right-hand corner will indicate the Agenda Item Number and the page of the agenda item.



**MINUTES OF THE  
ENVIRONMENTAL PROTECTION COMMISSION  
MEETING**

**June 18, 2024**

**Video Teleconference  
and  
6200 Park Ave.**

**Approved by the Commission **TBD****

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Sender's Initials <u>ap</u>

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### Meeting Minutes

#### CALL TO ORDER

The meeting of the Environmental Protection Commission (Commission or EPC) was called to order by Chairperson Mark Stutsman at 10:05 am on June 18, 2024 via video/teleconference attendees. Chair Stutsman made a motion to nominate Patricia Foley to chair the remainder of the meeting due to his remote attendance. It was seconded by Rebecca Dostal. Chair Stutsman asked for a voice vote to approve Patricia Foley as the Acting Chair for the remainder of the meeting by saying aye. There were no nay votes.

#### COMMISSIONERS PRESENT

- Patricia Foley
- Rebecca Dostal
- Roger Zylstra
- Lisa Gochenour (virtual)
- Kyle Tobiason
- Jim Christensen
- Mark Stutsman (virtual)

#### COMMISSIONERS ABSENT

- Amy Echard
- Harold Hommes

#### APPROVAL OF AGENDA

<i>Motion was made by Rebecca Dostal to approve the item as presented. Seconded by Roger Zylstra.</i>
<i>The Acting Chairperson asked for the Commissioners to approve the agenda by saying aye. There were no nay votes.</i>

<b>APPROVED AS PRESENTED</b>
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#### APPROVAL OF MINUTES

<i>Motion was made by Roger Zylstra to approve the item as presented. Seconded by Rebecca Dostal.</i>
<i>The Acting Chairperson asked for the Commissioners to approve the Minutes of the May 22, 2024 meeting by saying aye. There were no nay votes.</i>

<b>APPROVED AS PRESENTED</b>
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#### MONTHLY REPORTS

- Division Administrator Ed Tormey welcomed Commissioners to the new Park Ave DNR headquarters building and introduced Tim Hall to provide an update on the Iowa drought status. Mr. Hall gave a presentation about the precipitation received in 2024 that has significantly improved the water levels in Iowa. Mr. Hall also provided an outlook for rainfall throughout the Summer and into the Fall of 2024.

<b>INFORMATION</b>
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#### DIRECTOR’S REMARKS

- Deputy Director Alex Moon also welcomed Commissioners to the new Park Ave DNR headquarters building and extended an invitation to the Commissioners for a tour of the building following the meeting. Mr. Tormey publicly thanked Deputy Director Moon for all of his dedicated work in managing the building move.

**CLEAN WATER AND DRINKING WATER STATE REVOLVING (SRF) LOAN FUND-FY 2025 INTENDED USE PLANS**

Theresa Enright presented the FY 2025 Intended Use Plans for the Clean Water and Drinking Water SRF. Ms. Enright explained the alternating interest rate and how it is calculated each quarter.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Kyle Tobiason to approve the item as presented. Seconded by Rebecca Dostal.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH LINN COUNTY-LINN COUNTY AIR QUALITY PROGRAM**

Christine Paulson requested Commission approval for a contract with Linn County for the Linn County Air Quality Program. The program focuses on fulfilling the requirements of the federal Clean Air Act Amendments of 1990 through the collection and assessment of information regarding air quality, the permitting of sources of air emissions, the enforcement of emission limits, and the attainment and maintenance of ambient air quality standards. Ms. Paulson provided a brief history regarding the origin of the county air quality programs.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Rebecca Dostal to approve the item as presented. Seconded by Jim Christensen.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH POLK COUNTY-POLK COUNTY AIR QUALITY PROGRAM**

Christine Paulson requested Commission approval for a contract with Polk County for the Polk County Air Quality Program. The program focuses on fulfilling the requirements of the federal Clean Air Act Amendments of 1990 through the collection and assessment of information regarding air quality, the permitting of sources of air emissions, the enforcement of emission limits, and the attainment and maintenance of ambient air quality standards. Mrs. Paulson provided additional information regarding the local funding sources and how their match is determined.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Roger Zylstra to approve the item as presented. Seconded by Jim Christensen.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH THE UNIVERSITY OF NORTHERN IOWA-IOWA AIR EMISSIONS ASSISTANCE PROGRAM**

Christine Paulson requested Commission approval for a contract with the University of Northern Iowa to provide technical air quality assistance to Iowa’s small businesses.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Rebecca Dostal to approve the item as presented. Seconded by Kyle Tobiason.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH THE UNIVERSITY OF IOWA STATE HYGIENIC LABORATORY (SHL)-2025 SHL SERVICES IN SUPPORT OF THE DNR AIR QUALITY PROGRAM**

Brian Hutchins requested Commission approval for a contract with SHL to perform ambient monitoring and related services in support of the DNR Air Quality Bureau. Mr. Hutchins responded to questions about ozone and how it is affected by heat.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Kyle Tobiason to approve the item as presented. Seconded by Roger Zylstra.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH CERRO GORDO COUNTY DEPARTMENT OF PUBLIC HEALTH-PUBLIC WATER SUPPLY INSPECTIONS**

Christina liams requested Commission approval for a contract with Cerro Gordo County Department of Public Health to conduct inspections of certain public water supply (PWS) systems designated as transient non-community, as detailed in the state’s drinking water rule chapters.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Jim Christensen to approve the item as presented. Seconded by Rebecca Dostal.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP (IDALS)-NORTH RACCOON RIVER WATERSHED 2023 GRANT**

Kyle Ament requested Commission approval for a contract with IDALS to provide additional funding and support for the North Raccoon River Watershed water quality project.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Kyle Tobiason to approve the item as presented. Seconded by Roger Zylstra.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT AMENDMENT WITH IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP (IDALS)-PALO ALTO SHALLOW LAKES WATERSHED PROJECT**

Kyle Ament requested Commission approval for a contract with IDALS to provide additional funding and support for the Palo Alto Shallow Lakes Watershed project.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Jim Christensen to approve the item as presented. Seconded by Rebecca Dostal.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark*

*Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**CONTRACT WITH WATER PROFESSIONALS INTERNATIONAL (WPI)-PRIVATE WELL CONTRACTOR AND WASTE LAGOON OPERATOR CERTIFICATION EXAMS**

Laurie Sharp requested Commission approval for a contract with WPI to develop certification exams for private well contractor and waste lagoon operators, including online exams.

**Public Comments – None**

**Written Comments – None**

*Motion was made by Rebecca Dostal to approve the item as presented. Seconded by Kyle Tobiason.*

*Amy Echard-absent, Roger Zylstra-aye, Harold Hommes-absent, Lisa Gochenour-aye, Rebecca Dostal-aye, Mark Stutsman-aye, Kyle Tobiason-aye, Patricia Foley-aye. Motion passes.*

**APPROVED AS PRESENTED**

**GENERAL DISCUSSION**

- Commissioners briefly discussed the process of how a body of water gets listed and/or delisted on the impaired waters list. Water Quality Bureau Chief, Lori McDaniel, committed to provide a presentation regarding the process to the Commissioners in the future.

**ADJOURN**

*Acting Chairperson Patricia Foley adjourned the Environmental Protection Commission meeting at 11:33 am on June 18, 2024.*

**ADJOURNED**



**Monthly Waiver Report  
July 2024**

Item #	DNR Reviewer	Facility/City	Program	Subject	Decision	Date	Agency
1	John Curtin	Wiese Industries	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement for a Paint Curing Operation in Building 3.	Approved	7.2.24	24aqw120
2	Lucas Tenborg	IPL- Ottumwa Generating Station	AQ	request to bring three diesel-powered high-pressure water pumps on-site to pressure wash th boiler's air pre-heater 101.	Approved	7.2.24	24aqw121
3	Danjin Zulic	The Embers Retirement Community	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.2.24	24aqw122
4	Lucas Tenborg	MidAmerican Energy	AQ	Requested a limited trial use of Mercontrol 8018/8019 designed to aid in controlling mercury emissions.	Approved	7.3.24	24aqw123
5	Nate Tatar	Ajinomoto Health & Nutrition NA, Inc - AHI	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.5.24	24aqw124
6	Cindy G, Chad F, Kelli B. and Alison M.	Kennedy Cattle Company	Animal Feeding Operation	An existing open feedlot is expanding to permit size and an existing private well is too close to the feedlot pens. Owner requested variance from the 100' minimum due to site concerns, well drilling costs, well quality and protection of well.	Approved	7-8-24	24cpw125
7	Jasmine Bootman	N. Central IA Regional Solid Waste Agency	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.12.24	24aqw126
8	Julie Duke	Salix-Sioux Jerseys RNG	AQ	request to extend the allowable start of construction date for 2 months and completion date for 7 months.	Approved	7.11.24	24aqw127
9	Julie Duke	John Deere Dubuque Works	AQ	Request to operate a single fan system for the backhoe primer booth and top coat booth running at 60 Hz.	Approved	7.9.24	24aqw128
10	Lucas Tenborg	Green Plains Superior	AQ	Variance request to increase grain receiving and ethanol loadout prior to construction permit issuance.	Approved	7.16.24	24aqw129
11	Jasmine Bootman	Great River Regional Waste Authority	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.16.24	24aqw130
12	John Curtin	Manatts Inc. Ames	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement for a storage silo used for cement or fly ash.	Approved	7.17.24	24aqw131
13	Nate Tatar	Zoetis LLC - Eagle Grove	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.18.24	24aqw132
14	Jasmine Bootman	Paxton&Vierling Steel Company	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.23.24	24aqw133
15	Karen Kuhn	Southwest Iowa Renewable Energy	Air Quality Construction Permits	Waiver of Initial Stack Test Requirement.	Approved	7.24.24	24aqw134

**IOWA DEPARTMENT OF NATURAL RESOURCES  
LEGAL SERVICES BUREAU**

**DATE:** July 2024  
**TO:** Environmental Protection Commission  
**FROM:** Tamara McIntosh  
**SUBJECT:** Attorney General Referrals (April 2024 – June 2024)

<b>Name, Location and Region Number</b>	<b>Program</b>	<b>Alleged Violation</b>	<b>DNR Action</b>	<b>Status</b>	<b>Date</b>
City of Sioux City	Wastewater	Inadequate wastewater treatment	Referred to Attorney General	Referred Petition Filed Answer Filed by City Discovery Served Trial set for May 2023 continued; Trial set for April 23, 2024, continued Motion to Compel filed for discovery; resolved 12/14/23 Trial set for April 29, 2025	6/27/16 1/07/22 2/21/22 4/8/22 3/8/23 3/29/23  11/21/23  3/15/24
Global Fiberglass Solutions, LLC	Solid Waste	Illegal Stockpile	Referred to Attorney General	Referred	7/7/21
Apex Construction Group Cedar Rapids (1)	Air Quality	Asbestos	Referred to Attorney General	Referred Petition Filed Order scheduling trial for 7/8/24 Apex motion to add College Community School District, Shive-Hattery, Inc., and OPN, Inc. d/b/a OPN Architects as third-party defendants. Order granting motion to add third-party defendants. Apex motion to consolidate case EQCV102268 with case LACV101140. Order granting motion to consolidate and scheduling trial for both cases on 3/25/2025.	11/15/22 5/19/23 8/23/23 1/9/24  1/10/24  2/28/24  4/10/24
Chamness Technology, Inc. Eddyville (6)	Solid Waste	Failure to comply with AO and closure plan	Referred to Attorney General	Referred	4/18/23
Hanson & Sons Tire and Auto	Solid Waste	Tire Storage	Referred to Attorney General	Referred	4/18/23
Regancrest Holsteins Lansing (1)	CAFO	Manure Release	Referred to Attorney General	Referred	10/17/23
Quad County Corn Processors Galva (3)	Air Quality	Construction Permits, Violation of AO, Excess Emissions	Referred to Attorney General	Referred	12/19/23

Chad Roche Northwood (2)	Solid Waste	Tire Stockpiling	Referred to Attorney General	Referred Petition Filed Consent Decree Filed (dispose of no less than 2,000 tires per calendar quarter until complete)	1/17/24 5/6/24 5/6/24
D & D Dairy			Referred to Attorney General	Referred Agreed to Settlement Agreement	2/20/24 6/3/24
Amy Knapp d/b/a Knapp Mobile Home Park Dubuque (1)	Wastewater	Inadequate wastewater treatment	Referred to Attorney General	Referred	2/20/24
NEW Cooperative, Inc.	Wastewater	Illegal discharge	Referred to Attorney General	Referred	5/22/24

**IOWA DEPARTMENT OF NATURAL RESOURCES  
LEGAL SERVICES BUREAU**

**DATE:** July 2024  
**TO:** Environmental Protection Commission  
**FROM:** Tamara McIntosh  
**SUBJECT:** Contested Cases (April 2024 – June 2024)

Date Received	Name Of Case	Action Appealed	Program	Assigned Attorney	Status
6/10/13	Mike Jahnke	Dam Application	FP	Schoenebaum	<p>Hearing held 7/30/14. ALJ upheld the permit issued by the Department. Mr. Jahnke appealed but on 11/3/14 he asked that his appeal be put on hold until April 2015. For various reasons has asked that the appeal be postponed.</p> <p>Sept. 2017 – Mr. Jahnke called and asked that his appeal be put on hold until Spring 2018. September 2018 Mr. Jahnke called and asked that the matter be postponed to Spring '19.</p> <p>Jan. 2019 no changes, matter was postponed to Spring 2019.</p> <p>April 2019 – no change; matter postponed to Spring 2019.</p> <p>July 2019 – No changes.</p> <p>10/25/19 – Mr Jahnke has called many times to discuss his ongoing medical problems and his families' each time he asks for the matter not to be placed on the agenda and asks for a delay. He again asked for a delay until Spring.</p> <p>1/24/20 – Mr. Jahnke called again and explain ongoing medical problems and that he cannot be present for a winter meeting and asked that the matter continue to be delayed.</p> <p>5/25/20 to the 2/21/23 – no changes</p> <p>3/22.2023 – sent letter asking if he would like to withdraw his appeal or set it to go before the commission. A response was requested no later than April 12, 2023.</p> <p>April 2023 - Mr. Jahnke requested this not be set for argument before the EPC until October 2023 because of on-going health reasons.</p> <p>September 18, 2023, letter sent to Mr. Jahnke asking for a response NLT September 28, 2023 indicating if he</p>

					would like to move forward with appeal or withdraw the appeal. Mr. Jahnke called Ms. Schoenebaum on September 28, 2023, and asked not to place this on the agenda because of serious health issues. <b>6/21/24 – No change</b>
11/9/17	IA Regional Utilities Association	Permit Issuance	WW	Schoenebaum (Poppelreiter)	10/25/18 –Negotiating before setting a hearing date. A final meeting with facility’s new director is expected before the end of 2018. 01/24/19 –Negotiating before setting a hearing date. Meeting with permittee 1/24/19. Permittee must discuss options with Board. Decision from Permittee on whether to withdraw appeal or move forward with hearing is expected in Spring 2019. April 2019 – Waiting on permittee to decide whether to set a hearing or withdraw appeal. 10/25/19 – Permittee and DNR still in negotiations re: engineering proposals at the facility. No change in the appeal status. 1/24/20 – Finalizing the report on the progress they have made and will meet with DNR’s Wastewater staff in February to discuss settlement options. 5/25/20 – No Changes  11/18/2020 - Ongoing negotiations with IRUA. No hearing set as yet. Looking into alternative solutions.  3/25/2021 - Continuing discussions with IRUA. Both parties are interested in non-litigation solutions. No hearing set.  <b>5/27/21 to the present – No Changes</b>
7/6/22	Supreme Beef, LLC	Permit issuance	Water use and allocation	Adams (Poppelreiter)	9/19/23 – Active litigation.  12/21/23 - Evidentiary hearing continued to February 1-2 to allow for ALJ to rule on DNR’s motion for summary judgment and appellants’ motion for summary judgment.  3/19/24 – Posthearing brief due April

					5 <sup>th</sup> <b>6/20/24 – As of this date, all briefs are submitted and we are awaiting the ALJ’s ruling.</b>
9/18/23	Osceola Rural Water Supply	Permit issuance	Water use and allocation	Adams (Poppelreiter)	9/19/23 – Has not been transmitted to DIA. DNR and appellants are in negotiations.  12/21/23 – No changes  3/19/24 – Still negotiating terms, active communication between DNR and ORWS.  <b>4/4/24 – Osceola Rural Water accepts the conditions Chad Fields had proposed and the appeal was withdrawn.</b>
2/29/24	Pickell, Reddish subdivisions no. 2, 3 & 4  (Appeal of City of Madrid Water Supply Construction Permit)	Permit Issuance	Water Supply Engineering – Construction Permits	Adams	3/19/24 – Dispute mainly stems from whether city or subdivision is responsible for certain costs and upkeep. Parties in negotiation.  <b>6/11/24 - Status conference held; hearing date set for August 19. Still no petition filed, WSE staff and I are struggling to ascertain the basis of the appeal.</b>

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**IOWA DEPARTMENT OF NATURAL RESOURCES  
LEGAL SERVICES BUREAU**

**DATE:** July 2024  
**TO:** Environmental Protection Commission  
**FROM:** Tamara McIntosh  
**SUBJECT:** Enforcement Report Update (April 2024 - June 2024)

**The following new enforcement actions were taken during this reporting period:**

<b>Individual/Entity</b>	<b>Program</b>	<b>Alleged Violation</b>	<b>Type of Order/Action</b>	<b>Penalty Amount Due</b>	<b>Date</b>
Hogs, LLC	AFO	Manure Release	Consent	\$6,700.00	3/21/24
Jeffrey and Tina Smith	AFO	Basin Closure	Consent	0	4/11/24
Curtis Fox	AFO	Manure Release	Consent	\$5,000.00	4/15/24
Brian and Carole Siple	AFO	Construction Permit	Consent	\$5,000.00	4/19/24
Kenton Davis	SW	Improper Solid Waste Disposal	Consent	\$1,000.00	5/3/24
Waspy's Truck Wash, L.L.C.	WW	Prohibited Discharge	Consent	\$8,000.00	5/6/24
Gerald Shultes	AFO	Manure Management Plan	Consent	\$3,000.00	5/8/24
Terrace Hill Sanitary Sewer District	WW	Permit Violations	Consent	\$2,500.00	5/10/24
Michael Butikofer	AFO	Manure Release	Unilateral	\$4,000.00	5/24/24
Bradley Smith	AFO	Manure Management Plan	Unilateral	\$9,000.00	5/24/24
NS Retail Holdings, LLC	WW	Prohibited Discharge	Consent	\$1,500.00	5/30/24
Water's Edge, LLC	WW	Permit Violations	Consent	\$4,000.00	5/31/24
Rolling Knolls Golf Course and Carrie Fangman	WS	Reporting	Unilateral	\$7,375.00	6/3/24
Gregory DeGroot	AFO	Manure Management Plan	Consent	\$2,000.00	6/6/24
Irsih Capital Investments, L.L.C.	AQ	Asbestos	Consent	\$7,000.00	6/6/24
City of Rolfe	AQ	Open Burning	Consent	\$7,000.00	6/13/24
Robins Landing, LLC and Boomerang Corp.	WW	Prohibited Discharge	Consent	\$8,000.00	6/13/24

Corson Excavating, LLC	WW	Prohibited Discharge	Consent	\$1,500.00	6/13/24
<b>Grand Total</b>				<b>\$82,875.00</b>	



**IOWA DEPARTMENT OF NATURAL RESOURCES  
LEGAL SERVICES BUREAU**

**DATE:** July 2024  
**TO:** Environmental Protection Commission  
**FROM:** Tamara McIntosh  
**SUBJECT:** Summary of Administrative Penalties (April 2024 - June 2024)

**The following administrative penalties are being collected by DRF:**

NAME	PROGRAM	AMOUNT (remaining)
Jon Knabel	AQ/SW	\$1,037.33
Randy Wise; Wise Construction	AQ/SW	\$2,081.32
Gary Eggers	SW/WW	\$10,000.00
Dennis R. Phillips; Marty's Convenience Mart	UT	\$9,954.53
Frank Robak	UT	\$10,000.00
Randy Cates	AQ/SW	\$10,000.00
Jeff Gray dba Grayz Metal Recycling	AQ/SW	\$918.53
Jayson Schlafke	AFO	\$3,000.00
Strickler Farms, LTD	AFO	\$2,592.78
Steve Seelye	AQ	750.00
Brandon Stewart	AQ/SW	\$2,100.00
North Iowa Custom Finishing	AFO	\$2,250.00
North Iowa Custom Finishing	AFO	\$4,100.00
Harold Chapman	WW	\$1,350.00
Jason Larabee	AFO	\$7,500.00
Larrell DeJong	AFO	\$4,000.00
Larrell DeJong	AFO	\$10,000.00
Scott Ellsworth	AFO	\$5,000.00
Jacob Wagoner	AQ	\$4,000.00
James Ziebell	AQ	\$10,000.00
Chanchai Sooksawan	AQ	\$10,000.00
Kunkel Enterprises, LLC and Mike Kunkel	AQ	\$8,000.00
Newt's Café	WS	\$1,500.00
Sunnybrook LE, LLC	WS	\$5,000.00
Newt's Café	WS	\$1,500.00
Sunnybrook LE, LLC	WS	\$5,000.00
<b>Total</b>		<b>\$131,634.49</b>

**The following administrative penalties are DUE:**

NAME	PROGRAM	AMOUNT (remaining)
Sport Wade, Inc.	UT	\$10,000.00
Recycling Services	WW/HC/SW	\$7,000.00
Lu-Jen Farms	AFO	\$5,000.00
Blue Hyll Dairy Farm, LLC	AFO	\$6,500.00
Michael Matthews	AQ	\$4,630.00
Bar K Cattle, LLC	AFO	\$5,000.00
Robert Bryant	AFO	\$2,000.00
Amritdeep Kaur – Pari, Inc.	UT	\$7,000.00
Amritdeep Kaur – Cissy's II	UT	\$8,890.00

Ronald Stratton	FP	\$5,000.00
Jaymaharaj, L.L.C. and Monaj Desai	HC	\$7,000.00
CJ's Construction, Inc.	WW	\$5,000.00
RAM Development	AQ	\$500.00
Tyler Investment Company, Inc.	WW	\$10,000.00
Wright Materials Company	AQ	\$2,500.00
Tim Peters and TNT Disposal	SW	\$10,000.00
David Omar Mercado	SW	\$10,000.00
Upcountry Fab LLC/Alexander Buck	AQ/SW	\$1,530.00
Nick and Ray Ohl	AQ	\$3,000.00
Brookstone Specialty Servicing, Inc.	WW	\$10,000.00
Daniel and Linda Troyer	AQ/WW	\$500.00
Northern Filter Media	AQ	\$10,000.00
Nolan Junker	AFO	\$3,000.00
Chad Roche	SW	\$10,000.00
James and Debbie Whistler	AQ/SW	\$5,000.00
Presley Bland	AQ	\$2,000.00
Mammoet USA North Inc.	WW	\$3,000.00
Dennis L. Reich	AQ	\$3,100.00
Brian Young	AQ	\$7,000.00
Randy Less	FP	\$2,500.00
Mississippi Valley Meat, Inc.	AFO	\$3,000.00
PMI Porkin LLC	AFO	\$3,000.00
Nolan Junker	AFO	\$7,000.00
Doug Riesberg	AFO	\$6,000.00
Ames Business Group	AQ	\$2,000.00
Ames Business Group/Wesley Ames	SW	\$10,000.00
William Shadbolt/Montipark LLC	WS	\$10,000.00
Peeters Development Company Inc.	WS	\$10,000.00
<b>Total</b>		<b>\$217,650.00</b>

**The following administrative penalties have been COLLECTED:**

NAME	PROGRAM	AMOUNT (Collected)
C&M Hogs	AFO	\$6,700.00
Clint Stencil	AQ	\$1,000.00
Michael Pearson (Revenue)	WW	\$17,988.22
Harold Chapman (Revenue)	WW	\$4,126.68
Gerald Schultes	AFO	\$3,000.00
Thomas Gronbach (Attorney General)	AQ	\$500.00
Justin Pollard (Attorney General)	SW	\$1,650.00
City of Cedar Rapids	WW	\$500.00 Administrative \$22,022.10 Restitution
Tim Dolan Development Co.	WW	\$1,375.00
NS Retail Holdings	WW	\$5,795.64 Restitution
Milan Hageman	AFO/WW	\$760.00 Restitution
Twin Anchors Campground & RV Park	AQ/SW	\$1,500.00
CDI, LLC	AQ	\$11,200.00

Ted Fox	AFO	\$2,500.00
Chamness Technologies (Attorney General)	SW	\$10,000.00
Darryl Humpal	AFO	\$1,000.00
Terrace Hill Sanitary District	WW	\$2,500.00
BCS Farms Partnership	AFO	\$5,000.00
Gregory DeGroot	AFO	\$2,000.00
Irish Capital Investments LLC	AQ	\$7,000.00
Michael Butikofer	AFO	\$4,000.00
Water Edge Home Owners Association	WW	\$4,000.00
<b>67006Total</b>		<b>\$87,539.90</b> <b>\$28,577.74</b> <b>Restitution</b>

**Iowa Department of Natural Resources  
Environmental Services Division  
Second Quarter 2024 Report of Wastewater By-passes**

During the period April 1, 2024 through June 30, 2024, 55 reports of wastewater by-passes were received by the department. A general summary and count by field office is presented below. This does not include by-passes resulting from precipitation events (including flood water infiltration) or bypasses resulting in basement backups.

<b>Quarter</b>	<b>Total</b>	<b>Avg. Length (days)</b>	<b>Avg. Volume (MGD)</b>	<b>Sampling Required</b>	<b>Fish Kill</b>
1 <sup>ST</sup> Quarter '24	37 (52)	0.317	0.208	1	0(0)
2 <sup>ND</sup> Quarter '24	55 (30)	0.745	1.095	2	0(0)
3 <sup>RD</sup> Quarter '23	39 (34)	0.418	0.034	1	0(0)
4 <sup>TH</sup> Quarter '23	32 (45)	0.368	0.021	1	0(0)

(numbers in parentheses are for same period last year)

Total Number of Incidents per Field Office This Quarter:

<b>Field Office</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Reports</b>	15	4	6	7	14	9



**Iowa Department of Natural Resources**  
**Environmental Services Division**  
**Second Quarter Report of Manure Releases**

During the period April 1, 2024, through June 30, 2024, 7 reports of manure releases were forwarded to the department. A general summary and count by field office is presented below.

Month	Year	Total Incidents		Surface Water Impacts		Feedlot		Confinement		Land Application		Transport		Hog		Cattle		Poultry		Other	
		Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago
Jan	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	2024	2	1	0	1	0	1	0	0	0	0	2	0	1	0	1	1	0	0	0	0
Apr	2024	2	7	0	5	0	3	2	2	0	2	0	0	1	3	1	4	0	0	0	0
May	2024	3	1	1	1	2	1	1	0	0	0	0	0	0	0	2	1	1	0	0	0
Jun	2024	2	2	1	1	1	0	1	1	0	0	0	1	1	2	1	0	0	0	0	0
<b>Total</b>		<b>9</b>	<b>11</b>	<b>2</b>	<b>8</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

Total Number of Incidents per Field Office for the Selected Period	Field Office 1		Field Office 2		Field Office 3		Field Office 4		Field Office 5		Field Office 6	
	Current	Previous	Current	Previous	Current	Previous	Current	Previous	Current	Previous	Current	Previous
<b>Total</b>	2	3	1	1	3	3	1	0	0	2	0	1



**Iowa Department of Natural Resources  
Environmental Services Division  
Second Quarter Report of Hazardous Conditions**

During the period April 1, 2024, through June 30, 2024, 142 reports of hazardous conditions were forwarded to the central office. A general summary and count by field office is presented below. This does not include releases from underground storage tanks, which are reported separately.

		Substance								Mode													
		Total Incidents		Agrichemical		Petroleum Products		Other Chemicals		Transport		Fixed Facility		Pipeline		Railroad		Fire		Other*		CR-ERNS	
Month	Year	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago	Cur	Yr Ago
Jan	2024	23	35	2	1	16	27	7	9	10	15	7	14	0	0	1	1	0	0	4	1	1	4
Feb	2024	25	22	1	1	23	15	5	6	8	6	10	13	1	0	0	1	1	0	3	2	2	0
Mar	2024	35	46	2	1	23	37	12	9	7	13	18	28	0	2	1	0	0	1	4	2	5	0
Apr	2024	45	47	12	10	30	28	12	12	19	13	20	19	0	1	1	3	1	2	1	1	3	8
May	2024	56	50	10	18	37	28	14	12	21	16	28	22	0	0	1	2	1	1	0	1	5	8
Jun	2024	41	51	5	13	22	26	17	15	9	22	19	14	1	1	1	1	0	0	3	2	8	11
<b>Total</b>		<b>225</b>	<b>251</b>	<b>32</b>	<b>44</b>	<b>151</b>	<b>161</b>	<b>67</b>	<b>63</b>	<b>74</b>	<b>85</b>	<b>102</b>	<b>110</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>4</b>	<b>15</b>	<b>9</b>	<b>24</b>	<b>31</b>

\* Other includes: dumping, theft, vandalism and unknown causes

\*\* CR-ERNS incidents are ongoing releases as defined by Federal regulations. These reports are included in "Total Incidents" and "Substance" counts but not in "Mode" counts.

Total Number of Incidents per Field Office This Selected Period	Field Office 1		Field Office 2		Field Office 3		Field Office 4		Field Office 5		Field Office 6	
	Current	Year Ago	Current	Year Ago	Current	Year Ago	Current	Year Ago	Current	Year Ago	Current	Year Ago
<b>Total</b>	19	25	9	10	5	8	43	44	36	36	30	25

Iowa Department of Natural Resources  
Environmental Protection Commission

#5

**Decision Item**

**Contract Amendment #2 to 23ESDLQBAClar-0001, Stantec Consulting Services Inc.**

**Commission approval is requested for a contract amendment with Stantec Consulting Services Inc. of Nashville, TN (Stantec).**

**Contract Terms:**

**Amendment #2 to 23ESDLQBAClar-0001**

**Amendment Amount: \$488,509**

**Amendment Dates: 10/1/2024 to 9/30/2025**

**Funding Source(s): FEMA Cooperating Technical Partner (CTP) Grant**

**Amendment Purpose:** The purpose of this contract amendment is to add funding for Program Management (PM) and Communication Outreach and Mitigation Strategies (COMS) for Floodplain Mapping Services for DNR’s Floodplain Mapping Program for the period stated above.

**Original Contract Purpose:** The services in the original contract facilitate communication with stakeholders and assist in compliance with FEMA’s complex standards and guidelines. This includes development and management of the data platform for storing, analyzing and distributing two-dimensional base-level (2D BLE) models being created by our flood study contractors that will be used to update Flood Insurance Rate Maps (FIRMs) and improve flood risk information. Attachment A below is the Statement of Work and Pricing from the original contract.

**Original Selection Process Summary:** Stantec was chosen through the State’s competitive RFP process. It was the only vendor to submit a proposal. DNR selected Stantec for this project because it demonstrated the necessary qualifications to perform the proposed tasks. This contract is for professional services.

	<u>Amount</u>	<u>Timeframe</u>	<u>Purpose</u>
Original Contract Terms	\$420,204	10/1/2022 to 9/30/2023	Program Management & Community Engagement
Amendment #1	\$446,489	10/1/2023 to 9/30/2025	Additional funding
Current Amendment	\$488,509	10/1/2024 to 9/30/2025	Additional funding
<b>Total</b>	<b>\$1,355,202</b>		

Kathryne Clark, GIS Section Supervisor, Land Quality Bureau  
Environmental Services Division  
August 20, 2024

**Attachment A**  
**Scope of Work from Original Contract**

**Project Management**

**The Contractor will provide the following floodplain mapping services:**

- State and Local Business Plans and/or Updates
- Global Program Management Activities
- Global Outreach for Mapping
- Training to State and Local Officials
- Mitigation Planning Technical Assistance
- Staffing
- Technical Pilot Projects
- Mentoring and Best Practices
- Minimal Map Printing
- Coordinated Needs Management Strategy (CNMS)
- Programmatic Quality Assurance/Quality Control (QA/QC) Plans

**Community Outreach Mitigation Strategies Services**

- Strategic Business Plan and/or Update
- Strategic Planning for Community Engagement
- Meeting and Process Facilitation
- Mitigation Support
- Communication and Outreach to Communities
- Training and Community Capability Development
- Mitigation Planning Technical Assistance
- Staffing
- CERC Special Projects
- Mentoring

**Services**

Contractor will provide cloud hosting of 2D BLE modeling data and 2D BLE data distribution to mapping partners and the public if requested.



## Pricing from Original Contract

### Fixed Fee Services

Position Description/Job Classification	All-inclusive Hourly Rates
Administrative Assistant	\$99.00
Planner	\$123.00
GIS Analyst	\$127.00
Project Engineer	\$135.00
Application Developer	\$154.00
Senior Planner	\$169.00
Senior GIS Analyst	\$175.00
Senior Application Developer	\$182.00
Senior Project Engineer	\$184.00
Project Manager	\$190.00
Principal	\$210.00
Senior Principal	\$240.00

### Cloud Based Hosting

	Monthly	Yearly
Year 1	\$ 8,500.00	\$ 102,000.00
Year 2	\$ 8,713.00	\$ 104,556.00
Year 3	\$ 8,931.00	\$ 107,172.00
Year 4	\$ 9,154.00	\$ 109,848.00
Year 5	\$ 9,383.00	\$ 112,596.00
Year 6	\$ 9,617.00	\$ 115,404.00

The above costs apply to cloud storage requirements that are under 6TBs, if the storage requirements exceed 6TBs, these costs will increase.

### Total Costs for Year 1

Personnel	\$ 318,204.00
Cloud Based Hosting	\$ 102,000.00
<b>Total</b>	<b>\$ 420,204.00</b>

Iowa Department of Natural Resources  
Environmental Protection Commission

#6

**Decision Item**

**Contract Amendment #2 to 23ESDLQBAClar-0002, AECOM Technical Services, Inc. and Amendment #3 to 23ESDLQBAClar-003, AtkinsRealis USA, Inc.**

**Commission approval is requested for a contract amendment with:**

AECOM Technical Services, Inc. of Kansas City, Missouri

AtkinsRealis USA Inc. of Alexandria, Virginia

**Terms:**

**Amendment #2 to 23ESDLQBAClar-0002 and #3 23ESDLQBAClar-003**

**Amendment Amount:** \$1,719,196

**Amendment Dates:** October 1, 2024 to September 30, 2025

**Funding Source(s):** grant from the Federal Emergency Management Agency (FEMA)

**Amendment Purpose:** The purpose of these contract amendments is to add money to the original contracts to complete new projects that fall within the original tasks without extending the time of performance previously allowed.

**Original Contract Purpose:** The purpose of these contracts is to provide Floodplain Mapping Services for the development of flood risk management data, and potentially, Flood Insurance Rate Maps (FIRMs) in specified watersheds and counties in the State of Iowa. A detailed list of potential tasks is included in the Statement of Work along with pricing from the original contracts on the last page of this brief.

The DNR began mapping the entire State of Iowa using two-dimensional base level engineering (2D BLE) models. This has been the primary activity for floodplain mapping services for the last two years. 2D BLE modeling will be used to update FIRMs as current FIRMs become outdated. The services listed in the Statement of Work will be necessary to accomplish this goal and will support the DNR in its work with FEMA to create and maintain accurate, up-to-date flood hazard data, develop FIRMs, Flood Insurance Studies (FISs) and Physical Map Revisions (PMRs).

**Original Selection Process Summary:** The contractors listed above were chosen through the State's competitive RFP process. They were chosen for the professional services listed on the next page because they met the pre-qualification minimum scoring requirement of 75% of possible points.

**Contract History:**

**ESDLQBAClar-0002 (AECOM)**

	Amount	Timeframe	Purpose
Original Contract	\$4,948,918	10/1/2022 to 9/30/2025	Floodplain Mapping Services
Amendment #1	\$1,456,815	10/1/2023 to 9/30/2025	Add funding
Current Amendment	\$1,719,196	10/1/2024 to 9/30/2025	Add funding
<b>Total</b>	<b>\$8,124,929</b>		

**ESDLQBAClar-003 (AtkinsRealis USA)**

	Amount	Timeframe	Purpose
Original Contract	\$4,948,918	10/1/2022 to 9/30/2025	Floodplain Mapping Services
Amendment #1	\$1,456,815	10/1/2023 to 9/30/2025	Add funding
Amendment #2	0	3/1/2024 to 9/30/2025	Name change
Current Amendment	\$1,719,196	10/1/2024 to 9/30/2025	Add funding
<b>Total</b>	<b>\$8,124,929</b>		

### **Scope of Work from Original Contract**

#### **Floodplain Mapping Services**

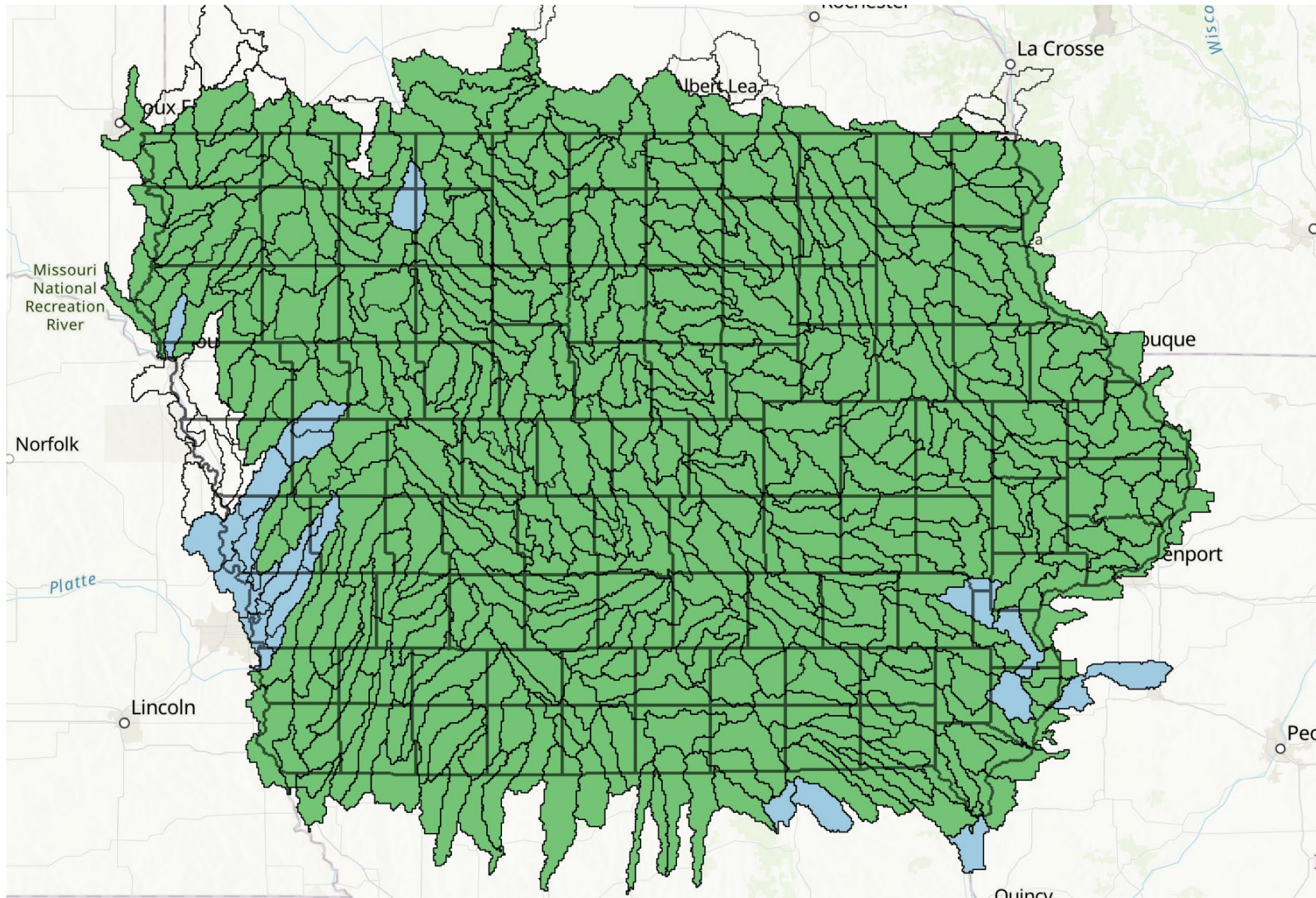
The services listed below will be competitively bid as Task Orders.

The Contractor will provide the following floodplain mapping services:

- Project Risk Identification and Mitigation
- Perform Discovery
- Perform Community Engagement and Project Outreach
- Develop Flood Risk Products
- Independent QA/QC of Flood Risk Products
- Perform Field Survey
- Develop Topographic Data
- Perform Independent QA/QC Topographic Data
- Prepare Base Map
- Develop Hydrologic Data
- Perform Independent QA/QC Hydrologic Data
- Develop Hydraulic Data
- Perform Independent QA/QC Hydraulic Data
- Perform Floodplain Mapping
- Perform Independent QA/QC Floodplain Mapping
- Develop FIRM Database
- Produce Preliminary Map Products
- Perform Independent QA/QC Produce Preliminary Map Products
- Distribute Preliminary Map Products
- Post-Preliminary Map Production
- Perform 2D BLE modeling according to Iowa DNR specifications
- Provide 2D BLE outreach
- Perform 2D BLE refinement
- Develop 2D BLE FP Mapping
- Develop 2D BLE Flood Risk products

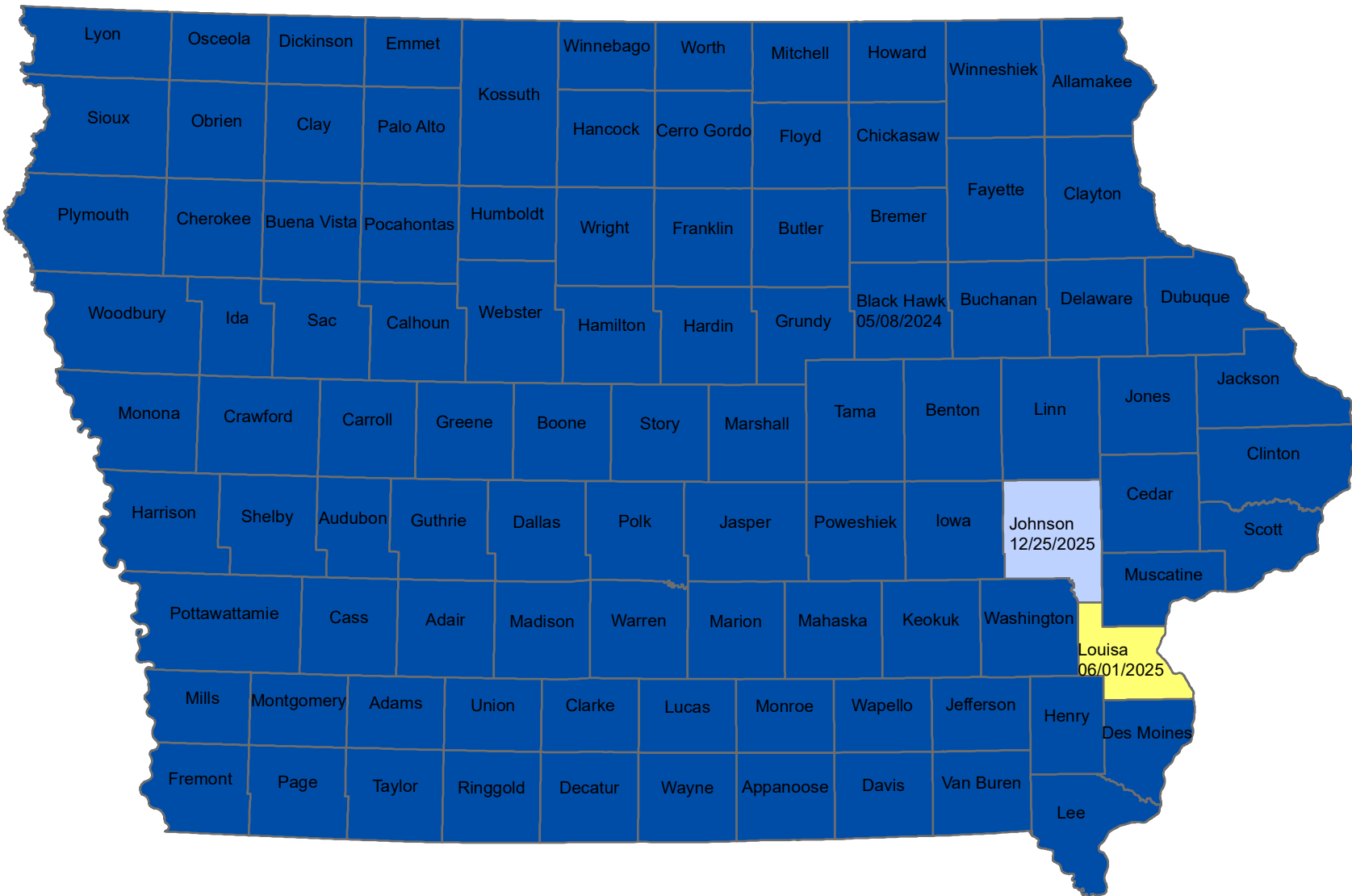
### **Pricing from Original Contract**

The source of funding for Task Orders to be performed under this Contract shall be \$4,948,918 of the FEMA Cooperating Technical Partner (CTP) Grant No. EMK-2022-CA-00009 awarded to the DNR for the 39-month Period of Performance beginning on October 1, 2022. There is no guarantee as to the number of individual Task Orders that will be allotted to any prequalified Contractor. Payment shall be for satisfactory completion of the Task Orders developed in accordance with the provisions of this Contract, provided that Contractor has complied with the terms of this Contract. Payment for the work performed by Contractor according to the terms of this Contract shall be allotted in lump sum portions of \$4,948,918 with no guarantee as to the number or dollar value of individual Task Orders. This Contract will be amended as necessary to reflect the amounts of future FEMA CTP grants.



Status of two-dimensional base-level engineering (2D BLE) data development. 2D BLE hydrology and hydraulic models are almost complete (blue). Floodplain mapping has begun in more than two-thirds of all HUC-10 watersheds (green). Preliminary data review by communities is scheduled to be complete by the end of July.

# Effective Flood Insurance Rate Map (FIRM) Progress August 2024



Label shows  
projected effective date.



12/25/2025



Effective



FEMA Responsible

Iowa Department of Natural Resources  
Environmental Protection Commission

ITEM #7

DECISION

**Contract Amendment #1 to 21EDSLQBKClar-0001 with THE UNIVERSITY OF NORTHERN IOWA GeoTREE Center**

**Recommendation:**

Commission approval is requested for an amendment to a service contract with the at the University of Northern Iowa (UNI) GeoTREE Center.

**Contract Amendment Terms:**

**Amendment #1 Amount:** \$150,000

**Amendment Dates:** August 20, 2024 to December 31, 2025.

**Funding Source(s):** Projects will be funded through GIS infrastructure funds or federal grant dollars.

**Statutory Authority:** Iowa Code section 455B.103(3) and 11 IAC 118.4.

**Contract Background:**

The Iowa Department of Natural Resources (DNR) has utilized the UNI GeoTREE Center for basic GIS services, pursuant to the provisions of Iowa Code section 455B.103(3) over the past several years. UNI has been a very cost effective and responsive provider of base-level GIS services and has allowed the DNR to move forward with a major project (update to the Iowa portion of the National Hydrography Dataset). Most recently, UNI GeoTREE has completed a pilot project on high-resolution land cover data. They are currently finishing the first geographic area (in northwest Iowa) of a new statewide coverage of high-resolution land cover data.

**Contract Purpose:**

The DNR requests Commission approval of an amendment to a general GIS services contract with UNI GIS facility (GeoTREE Center) that will add \$150,000 to the existing contract for a total amount not to exceed \$300,000 for the same time period as the original contract. All work performed under this contract will be detailed in Task Orders explicitly stating scope, budget, and timelines associated with the individual projects.

**Contractor Selection Process:**

- Authority for DNR to contract with the UNI for this purpose is Intergovernmental contracting authorized by 11 IAC 118.4. Iowa Code section 455B.103(3) also provides authority for this contract amendment. The UNI GeoTREE Center was chosen for this contract because of its demonstrated ability to provide the necessary GIS services requested satisfactorily and within the timeframes allowed.

**Contract History:**

The DNR has had a contract with the GeoTREE Center at UNI since December of 2015 (15ESDLQBCEnsm0001). Since that time, DNR has issued three amendments to the original contract and eleven (11) task orders for basic GIS services. UNI has provided services to DNR that have allowed DNR to move one very large project forward.

	<b><u>Amount</u></b>	<b><u>Timeframe</u></b>	<b><u>Purpose</u></b>
Original Contract Terms	\$300,000	12/15/2015 to 12/15/2018	Provide basic GIS services
Amendment #1	\$0	4/22/2016 to 12/15/2018	Change the project manager
Amendment #2	\$150,000	12/16/2018 to 12/31/2021	Extend time and add additional funding
Amendment #3	\$0	10/1/2019 to 12/31/2021	Clarify source of funding
<b>Total</b>	<b>\$450,000</b>		

The current contract, 21ESDLQBKClar-0001, with the GeoTREE Center at UNI has been in place since January 1, 2022. This is the first amendment to the contract. This amendment will add dollars without changing the timeframe or tasks.

	<b>Amount</b>	<b>Timeframe</b>	<b>Purpose</b>
Original Contract Terms	\$150,000	1/1/2022 to 12/31/2025	Provide basic GIS services
Amendment #1	\$150,000	7/1/2024 to 12/31/2025	Add dollars to the contract
<b>Total</b>	<b>\$300,000</b>		

Kathryne Clark, GIS Section Supervisor, Land Quality Bureau  
Environmental Services Division  
August 20, 2024

**Iowa Department of Natural Resources  
Environmental Protection Commission**

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ITEM

#8

DECISION

TOPIC

**Water Supply-Water Use & Allocation Annual Permit Fee**

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The DNR requests Commission approval for the Water Use and Allocation Program annual permit fee of \$115 per permit for SFY 2025.

**Background**

Water use permits are required of any person or entity using more than 25,000 gallons of water in a single day during the year, and are issued for a period of up to 10 years. Iowa Code §455B.265(6) authorizes the DNR to charge a fee for the permits and to collect up to \$500,000 per year through these fees. The fee is required to be based on the DNR’s “reasonable cost of reviewing applications, issuing permits, ensuring compliance with the terms of the permits, and resolving water interference complaints.” There are two types of fees in the Water Use and Allocation Program: an application fee and an annual permit fee. This request is for the determination of the annual permit fee for SFY 2025.

The annual permit fee is calculated as follows:

- Each year, the Commission is asked to set the annual permit fee based on the costs for administering the water use program for the previous calendar years and on the anticipated expenses for the next fiscal years.
- The DNR reviews the annual permit fee each year and adjusts the fee as necessary to cover all reasonable costs required to develop and administer the water use permitting program.
- The annual permit fee is based on the number of active permits.
- Each permit holder pays the same annual permit fee.
- The DNR requests Commission approval of the amount of the annual permit fee no later than September 30th of each year.
- The annual permit fee due date is December 1<sup>st</sup>; and the DNR is required to provide an annual fee notice to each permittee at least 60 days prior to the fee due date (i.e., no later than October 1<sup>st</sup>).
- The annual permit fee history: \$135 in 2010-2011, \$95 in 2012, \$66 in 2013-2014, \$99 in 2015-2016, \$66 in 2017, \$134 in 2018-2019, \$95.00 in 2020-2022, and \$115 in 2023-2024.

**Stakeholder Meeting and Fee Analysis**

At the Water Use Stakeholder meeting on July 18, 2024, the program’s activities and budget were reviewed for the past and future years. In the SFY 2025 budget, there are 4.0 FTE staff persons and routine expenses. The budget less the anticipated application fee, anticipated general fund, and carryforward was used to determine the annual fee. The DNR proposed a \$115.00 annual fee in order to have stability in budgeting and less annual fluctuation of the fee. All fee monies are held in the water use permit fund to be used for the water use and allocation program needs.

Annual Permit Fee Calculation:

A. Budget – Average application fee revenue – Anticipated General Fund – Carryforward spent = Annual permit fee revenue

\$613,966 – \$35,000 – \$184,190 – \$18,956 = \$375,820 for annual permit fee revenue

B. Annual permit fee revenue/number of active permits that would pay fee in SFY 2024 = Annual permit fee per permit



$\$375,820 / 3,268 = \$115.00$  per permit

Therefore, a \$115.00 annual water use permit fee is proposed by the DNR for SFY 2025. The stakeholder members participating in the meeting did not object to this permit fee amount. It is noted that the Iowa Farm Bureau Federation and the Iowa Association of Business and Industry specifically acknowledged the fee during the meeting, however they neither supported nor objected to the fee.

Based on the budget and stakeholder input, the annual water use permit fee for SFY 2025 should be \$115.00.

Carmily Stone, MPH, Section Supervisor  
Water Supply Engineering Section, Water Quality Bureau  
Environmental Services Division

August 20, 2024

Iowa Department of Natural Resources  
Environmental Protection Commission

#9

**Decision Item**

**Contract Amendment** this is the fifth amendment to the original contract with Stearns, Conrad and Schmidt, Consulting Engineers, Inc.

**Commission approval is requested for a contract amendment with** Stearns, Conrad and Schmidt, Consulting Engineers, Inc., of 1690 All-State Court, Suite 100, West Des Moines IA.

**Amendment 5:**

**Amendment Amount:** \$397,000

**Amendment Dates:** August 30, 2024 through October 25, 2026

**Funding Source(s):** US EPA SWIFR grant – 86% and the Groundwater Protection Fund, Solid Waste Account G550 – 14%

**Amendment Purpose:** The purpose of this amendment is to implement stakeholder recommendations provided through the Sustainable Materials Management (SMM) – Vision for Iowa Initiative. Recommendations to be implemented include conducting Life Cycle Analyses (LCA) based on current management strategies, LCA impacts of alternative management strategies, identify methods other states utilize to receive recycling processing data and with DNR, conduct stakeholder meetings and subcommittee member work sessions to develop actionable recommendations for receiving recycling data. This amendment also involves stakeholder work sessions to develop work plans based on results of the LCAs, the Iowa Food Waste Prevention and Management Plan and the Iowa Recycling Infrastructure Study.

**Original Contract Purpose:** The original contract followed Phase I of the SMM – Vision for Iowa initiative. Phase I brought stakeholders together to discuss and develop a preferred vision to guide updating Iowa solid waste management policy and programs using SMM as the foundation. This stakeholder led initiative involved multiple meetings culminating in a preferred, shared vision for Iowa including, but not limited to, identifying a meaningful set of metrics for measuring impacts to public health and the environment, long-term sustainable funding mechanisms and the need for sustainable State policy and programs as it relates to solid waste generation and management.

**Original Selection Process Summary:** The original contract vendor selection process followed the formal, competitive process. Four proposals were received and reviewed. The proposal submitted by Stearns, Conrad and Schmidt, Consulting Engineers, Inc. was selected as the lowest cost, highest ranking proposal.

**Contract History:**

**Original Contract Terms:** Amount \$328,250; Timeframe: October 26, 2020 to October 25, 2022; Purpose: SMM – Phase II is to build upon the shared stakeholder vision identified in SMM Phase I. Through a series of facilitated stakeholder and subcommittee meetings, Phase II will involve, but is not limited to, setting SMM priorities, research other state’s SMM implementation, research and conduct material life cycle analysis to gauge public health and environmental impacts of materials used in commerce, and facilitate stakeholder recommendation consensus including but not limited, to SMM priorities, policy, programs, funding and metrics for movement to a SMM approach for protection of public health and safety and the environment.

**Amendment-1 Terms:** Amount: \$0; Timeframe: October 26, 2020 to March 23, 2023; Purpose: extended contract end date to hold the final stakeholder meeting, submit/present final report.

**Amendment-2 Terms:** Amount \$101,500; Timeframe: March 22, 2023 to August 30, 2024; Purpose: conduct DNR and stakeholder work sessions, conduct a recycling infrastructure inventory; update the hub and spoke economic model and based on the 2022 Statewide Materials Characterization Study results, conduct a market value assessment, economic impact analysis and greenhouse gas emissions impact had recyclable materials been diverted from the landfill through currently available programs.

**Amendment-3 Terms:** Amount: \$0; Amended the date by which the virtual presentation to update findings of stakeholder recommendations. Presentation was amended from April 30, 2024 to June 30, 2024. No other amendments to the above referenced agreement are included herein.

**Amendment 4 Terms:** Amount: \$8,000: No change to the contract timeframe. At the DNR’s request, the Contractor conducted additional analysis needed to develop and incorporate easy to understand infographics of key data into the comprehensive executive summaries of the Landfill Material Analysis and the Recycling Infrastructure Inventory technical reports. The executive summaries will be a comprehensive, graphic representation of key data that can serve as a standalone, high-level document that raises public awareness, interest and understanding of the report’s technical findings.

**Amendment-5 Terms:** Amount \$397,000 (86% Federal SWIFR, 14% SWAP); Timeframe: August 30, 2024 to October 25, 2026; Purpose: to conduct four material LCAs based on current materials management programs, conduct LCA impacts analysis of alternative management strategies of three materials, research methods used by other states to receive recycling program data, develop work plans based on results of the Food Waste Prevention and Management Plan, the Recycling Infrastructure Inventory survey, develop planning level cost estimates for stakeholder recommended recycling program updates, conduct work sessions with DNR and stakeholders and presentation of final reports and findings at industry conference.

<b>Task 14:</b> Life Cycle Analysis (under current and alternative management strategies)	Not to exceed \$272,000	\$272,000
<b>Task 15:</b> -Measurement and Reporting of Recycling Alternatives	Not to exceed \$47,000	\$47,000
<b>Task 16:</b> Work Plans, SMM Stakeholder Engagement and Work Sessions	Not to exceed \$78,000	\$78,000

Tom Anderson, Executive Officer II, Land Quality Bureau  
Environmental Services Division  
August 20, 2024

Iowa Department of Natural Resources  
Environmental Protection Commission

#10

**Decision Item**

**Commission approval is requested for a contract with** Black Hawk Soil and Water Conservation District, of Waterloo, Iowa.

**Contract Terms:**

**Amount:** Not to exceed \$250,000

**Dates:** September 1, 2024 to June 30, 2027.

**Funding Source(s):** US Environmental Protection Agency, Gulf of Mexico Division (EPA, GMD) Farmer to Farmer Grant to DNR for the Iowa Underserved Farmer and Farm Community Subaward Program

**Contract Purpose:** To provide the Contractor with funding to support the “Enhancing Conservation Technical Assistance Delivery to Historically Underserved Farmers in the Middle Cedar River Watershed” project which aims to establish local staffing to carry out activities supporting target producers to develop connections with partners and reach mutual production and water quality improvement goals.

This project represents a successful applicant from the second round of the Iowa Underserved Farmer and Farm Community Subaward Program. Applications were solicited from April 1 – May 31, 2024 and this applicant was selected by the DNR review team. Project scope of work aligns very well with grant goals, eligibility requirements, and EPA GMD objectives as well as the objectives of other statewide nonpoint source pollution reduction initiatives like the Iowa Nonpoint Source Management Plan and Iowa Nutrient Reduction Strategy.

Water quality goals set by the project:

- Target reductions of turbidity, nutrient, and bacterial pollution highlighted in the 2022 Cedar River Tributary Study of water quality in the project area;
- Work within the Iowa Nutrient Reduction Strategy and Water Quality Initiative priority watersheds of the Middle Cedar to identify small-scale production farms that can contribute to nonpoint source pollution mitigation;
- Connect historically underserved farmers of the Middle Cedar watershed identified by the initial focus group assessment to traditional water and soil conservation technical and funding resources; and
- Tailor water quality improvement approaches to targeted farmers by working to better understand specific water quality challenges they face in this region, conducting on-site consultations, and developing connections with technical experts within partner organizations.

**Selection Process Summary:** INTERGOVERNMENTAL – This Contract is authorized by 11 Iowa Administrative Code section 118.4, which states that if another governmental entity has resources available to supply a service sought by a state agency, the state agency may enter into an intergovernmental agreement with the other governmental entity and is not required to use competitive selection.

**Contract History:**

Black Hawk SWCD has hosted the Dry Run Creek Watershed Project since 2007. The Contracts are routed through Iowa Department of Agriculture and Land Stewardship, but are relevant to the local SWCD’s ability to hire and host staff to accomplish project goals in this area of work. Three relevant contracts are represented as follows:

23ESDWQBMHAES-0009 – Dry Run Creek Project

- Timeframe: January 1, 2023 to December 31, 2025
- Amount \$255,996
- Amendment(s): None

23ESDWQBMHAES-0010 – Black Hawk SWCD County Creek Sign Grant

- Timeframe: December 15, 2022 to September 30, 2023
- Amount \$9,995
- Amendment(s): None

21ESDWQBJBALK-0001 – Dry Run Creek Project

- Timeframe: June 18, 2021 to June 30, 2025
- Amount \$476,500
- Amendment(s): Amendment 1: No Cost Time Extension (6/30/2023 end date changed to 6/30/2025)

Steve Konrady, Western Iowa Basin Coordinator, Water Quality Bureau  
Environmental Services Division  
August 20, 2024

**Attachment A: Statement of Work**

**Section 5 STATEMENT OF WORK – RESPONSIBILITIES OF THE CONTRACTOR**

5.1 The responsibilities of Contractor shall be to perform the following Tasks by the Task Milestone Dates set out in the following table:

<b>Obligation</b>	<b>Task Milestone Date</b>
<p><b>Task 2: Conduct Middle Cedar Historically Underserved Farmer Needs Assessment</b>  <b>Description:</b> The Contractor will work to develop a Historically Underserved Farmer Needs Assessment to pair with the Needs Assessment Report developed by the Contractor’s USDA Conservation Innovation Grant (CIG) and referenced in the Statement of Work incorporated in Exhibit A over the course of the project as follows:</p> <ul style="list-style-type: none"> <li>● Year 1: The project intends to leverage a partner network to effectively engage with the audiences. To that end, the coordinator will establish relationships with partner organizations and historically underserved growers.</li> <li>● Year 2: The coordinator will work with partners and the Middle Cedar WMA to conduct a needs assessment replicating the efforts of the Black Hawk SWCD to learn more about the specific needs and challenges of this audience. The needs assessment will include a variety of methods to engage with various communities, including Town Hall meetings, focus groups, one-on-one interviews, and virtual sessions.</li> <li>● Year 3: The coordinator will develop a report including overall conclusions, key resource gaps and priority actions for technical assistance. The report will include a plan for moving the initiative forward as well as a communications plan to tailor outreach efforts to specific underserved farmer audiences.</li> </ul> <p><b>Deliverables:</b> Middle Cedar River Historically Underserved Farmer Needs Assessment</p>	<p>No later than</p> <p>Year 1: June 30, 2025</p> <p>Year 2: June 30, 2026</p> <p>Year 3: June 30, 2027</p>
<p><b>Task 2: Develop and Maintain Coordinator Staffing</b>  <b>Description:</b> The coordinator will be hired by Contractor and will work closely with Local Foods Program at UNI’s Center for Energy and Environmental Education (UNI-CEEE) to deliver upon the following proposed tasks:</p> <ul style="list-style-type: none"> <li>● Implement findings from the USDA CIG’s Needs Assessment Report referenced in Exhibit A.</li> <li>● Identify opportunities for water quality improvement via on-site consultations with program participant farmers.</li> <li>● Assist program participant farmers with the connections to key resources via USDA programs, land access, and water quality improvement technical assistance.</li> <li>● Work with city officials to remove barriers for urban farming and vegetable production via community outreach.</li> <li>● Apply for additional funding as relevant to support additional Needs Assessment Report items including but not limited to: cover crop seed, tool lending library, community garden starter toolkits, cost-share for water quantity projects (irrigation, rainwater storage)</li> </ul> <p><b>Deliverables:</b> Sustained staffing</p>	<p>Begin no later than March 1, 2025</p> <p>Maintained until June 30, 2027</p>
<p><b>Task 3: Progress Documentation</b>  <b>Description:</b> Contractor shall document the development of the outreach and implementation plans, implementation of watershed practices and resulting pollutant load reductions, and other items as consistent with Exhibit A.</p> <p>Each quarterly progress update shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>● Accomplishments during the previous period,</li> <li>● Activities planned for the upcoming period,</li> <li>● Tasks completed or Deliverables produced during the previous period,</li> </ul>	<p>Quarterly progress updates due: January 15, April 15, July 15, and October 15 of each year of the Contract</p>

<ul style="list-style-type: none"> <li>● An updated schedule of upcoming Deliverables,</li> <li>● Any problems or concerns encountered since the last report,</li> <li>● An explanation of any deviations from the budget contained in the Contractor’s Proposal (Exhibit A).</li> </ul> <p><b>Deliverables:</b> Quarterly reports</p>	
<p><b>Task 4:</b> Final Report</p> <p><b>Description:</b> Contractor shall prepare a final report document for DNR with final implementation steps completed, a total of education and outreach contacts made and events held during the timeframe, and report outs on all processes conducted during execution of this Contract.</p> <p>The Final Report shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>● the total federal Farmer to Farmer grant funds expended by the project;</li> <li>● a summary of other funds or in-kind expended on the project;</li> <li>● a summary of accomplishments and objectives by the project during the term of the Contract;</li> <li>● a comparison of actual accomplishments to the objectives established for the project in accordance with Exhibit A;</li> <li>● a summary of water quality improvements made, including, but not limited to load reduction calculations for targeted pollutants, where applicable;</li> <li>● if the project objectives were not met, an explanation as to why; and</li> <li>● all other reporting requirements as specified by the EPA grant agreement with DNR.</li> </ul> <p><b>Deliverable:</b> Final narrative report</p>	<p>No later than June 30, 2027</p>

**Attachment B: Budget**

**7.1 Budget.** The budget for this Contract shall be as follows:

**DNR Funding**

<b>Task 1.</b> Conduct Middle Cedar Historically Underserved Farmer Needs Assessment	Not to exceed \$70,000
<b>Task 2.</b> Develop and Maintain Coordinator Staffing	Not to exceed \$125,000
<b>Task 3.</b> Progress Documentation	Not to exceed \$30,000
<b>Task 4.</b> Final Report	Not to exceed \$25,000
<b>Total</b>	<b>Not to exceed \$250,000</b>

Task Milestone Date	Amount Due	Invoice Due No Later Than:
Task 1: Conduct Middle Cedar Historically Underserved Farmer Needs Assessment	Not to exceed \$70,000	As needed, minimum of one per state fiscal year dated no later than June 30 of each Contract year.
Task 2: Develop and Maintain Coordinator Staffing	Not to exceed \$125,000	As needed, minimum of one per state fiscal year dated no later than June 30 of each Contract year.
Task 3: Progress Documentation	Not to exceed \$30,000	As needed, minimum of one per state fiscal year dated no later than June 30 of each Contract year.
Task 4: Final Report	Not to exceed \$25,000	June 30, 2027



Iowa Department of Natural Resources  
Environmental Protection Commission

#11

**Decision Item**

**Contract with Polk County Conservation Board – Easter Lake Watershed Improvements 2024-2027**

**Commission approval is requested for a contract with** Polk County Conservation Board (PCCB).

**Contract Terms:**

**Amount:** Not to exceed \$68,248.89

**Dates:** August 21, 2024 to December 31, 2027.

*DNR shall have the option to extend this Contract for up to six years from the beginning date of the original contract by executing a signed amendment prior to the expiration of this Contract.*

**Funding Source(s):** U. S. Environmental Protection Agency (EPA) Clean Water Act (CWA) Section 319.

**Statutory Authority:** EPA Clean Water Act - Section 319

**Contract Background:**

The Easter Lake Watershed Project has been active since 2013 and is one of the largest active lake restoration projects in the state. Historical concerns with the lake included water clarity, algal blooms, high sedimentation rates, low oxygen concentrations, and fish population. Since construction of the lake in 1967, the water volume has decreased by nearly 30% because of sediment being deposited in the lake. The 2005 Easter Lake TMDL identified phosphorus and sediment as the pollutants of concern. Watershed modeling has identified high sediment and phosphorus loads originating from predominantly urban areas of the watershed and the Yeader Creek drainage area.

In response to these water quality problems, area stakeholders worked together to develop the Easter Lake Water Quality Management Plan (WQMP). The WQMP serves as the culmination of existing studies, citizen and stakeholder input, and a consultant's recommendations for structural and non-structural best management practices (BMPs) intended to reduce stormwater runoff and delivery of pollutants from the watershed and ultimately renovate Easter Lake through dredging and other in-lake improvements.

The WQMP is currently in its third phase. Phase Three projects and programs are aimed at reducing external pollutant delivery to the lake through cost-share and financial incentives for watershed BMPs. The implementation of these BMPs will decrease the transport of eroded soil and is critical to restoring Easter Lake and the watershed to a healthy, functioning system.

DNR's purpose in entering into this Contract is to collaborate with PCCB to complete the following projects:

## **Easter Lake Restoration Plan 2024-2027**

### **Easter Lake Timber Stand Improvement**

#### **SOUTH TIMBER**

##### **DESCRIPTION**

PCCB is proposing to conduct timber stand improvement (TSI) on 11.6 acres of woodland on the south shore of Easter Lake. This area is overgrown with multiple invasive species (honeysuckle, Asiatic bittersweet, and garlic mustard) and may begin losing biodiversity if left unattended. The 2-year project would consist of mowing, spraying, grazing, and prescribed fire as indicated in the Easter Lake forestry management plan. The objectives of this practice include:

- Restoration of woodland to historic oak-hickory component by removal of invasive (honeysuckle, multiflora rose, autumn olive, etc.) and less desirable, shade-tolerant native species (elm, ash, hackberry, etc.)
- Improved infiltration of storm water due to increase in herbaceous understory
- Reduction in nutrient loading into the lake via infiltration and soil processes
- Improvement in wildlife habitat and subsequent increases in wildlife use and opportunities for public to view wildlife
- Improvement in aesthetic properties and opportunities for public use of the woodland (wildflower viewing, mushroom hunting, etc.)
- Opportunities for public education - sustainable landscaping, etc.

This project will include several practices to restore this woodland including removal of invasive species, modified crop tree release, and prescribed fire.

## **METHODS**

**Vegetation Removal:** Where terrain allows, a skid steer mounted forestry mower will be used to remove invasive/undesirable trees and shrubs smaller than 6" diameter at breast height (dbh). Hand cutting will occur to remove vegetation along ravines. Stumps will be immediately treated with herbicide to limit resprouting. Goat grazing will be utilized to control resprouts during the first year after forestry mowing. Two passes of goat grazing will be utilized during the spring-summer. Using goats to manage vegetation will reduce the overall chemical application on the site, as well as provide a unique learning opportunity for park visitors. PCCB will be utilizing Goats on the Go as the contractor providing goats. Resprouts will be treated with selective herbicide during the second year of the project as needed.

**Crop Tree Release:** Upon removal of smaller (less than 6" dbh) invasive/undesirable trees and shrubs, crews will be dispatched to complete removal of invasive/undesirable species and to selectively remove all competing trees around "crop" trees. Crop trees are typically high-value mast-producing species (oak, hickory, walnut, etc.) that have superior size and structure. These specimens provide food for wildlife and seed for future generations of crop trees. It is important to note that oaks, hickories and walnuts are shade-intolerant species and consequently germination will be poor or nonexistent in areas with heavy mid-story component. PCCB will work with the District DNR forester to come up with a stand prescription.

**Prescribed fire:** In order to maintain control of invasive species and less-desirable shade-tolerant tree species, prescribed fire will be employed at regular intervals to achieve the following:

- Control of invasive and undesirable woody species
- Recycling of nutrients bound up in leaf material
- Increasing soil temperature due to removal of shading and blackening of soil surface. This favors woodland wildflowers/spring ephemerals (herbaceous understory).
- Removal of down dead wood to allow easier access for future management. Goal is to leave sufficient dead wood to preserve the diversity that depends on its existence (insects, fungus, etc.)

Limitations on burning due to the site's urban location may necessitate the use of alternatives to prescribed burning such as additional grazing and/or mowing. Spot spraying may continue beyond the first two years of the project, if needed.

This restoration plan supports the Easter Lake Watershed Management Plan in that it will help improve water quality by increasing the amount of desirable herbaceous vegetation, which will increase water infiltration, reduce runoff, and remove excess nutrients from the watershed. This plan supports the

invasive species removal goal of the Plan, in that vegetation removals will take out additional acres of honeysuckle and autumn olive that currently choke out the native vegetation. Finally, the aesthetic and educational value of this restoration will help reconnect residents and visitors to the natural amenities of Easter Lake and its surroundings.

## **TIMELINE**

### Summer-Fall 2024

- Forestry mow invasive and undesirable species under 6" dbh – Aug-Nov
- Spray stumps immediately post mowing – Aug-Nov

### Winter 2024-2025

- Hand removal of invasive/undesirable species that weren't forestry mowed – Dec – March
- Perform crop tree release based on stand prescription – Dec – March

### Spring-Summer 2025

- Goat Grazing (two passes through timber) – May – June

### Summer 2026

- Mow and/or spray resprouts June – September

### Winter 2026-2027

- Prescribed burn of project site (conditions permitting) – December.

Continue prescribed burn of project site every 5-7 years in perpetuity.

## **RESTORATION BUDGET**

Activity	Cost per Acre	Total Area	Total Cost
Invasive Species Control			
Forestry Mowing	\$600	17.6	\$10,560.00
Goat Grazing 1 <sup>st</sup> visit	\$625	25.7	\$16,062.50
Goat Grazing 2 <sup>nd</sup> visit	\$525	25.7	\$13,492.50
Herbicide application (2)	\$50 x 2	25.7	\$2,570.00
Prescribed fire	\$35	25.7	\$899.50
Timber Stand Improvement – 14.1 ac			
<6" dbh – drop/buck up / >6" dbh girdle	\$1,500	17.6	\$26,400.00
<b>Total</b>			<b>\$69,984.50</b>

## **TOTAL PROJECT COST: \$69,984.50**

### Funding Allocation

Section 319 Funding (75%): \$52,488.39

PCCB (25%): \$17,496.13

## **WEST TIMBER**

### **DESCRIPTION**

PCCB is proposing to conduct timber stand improvement (TSI) on 5.6 acres of woodland on the northeast shore of Easter Lake. This area is overgrown with multiple invasive species (honeysuckle, Asiatic bittersweet, and garlic mustard) and may begin losing biodiversity if left unattended. The 2-year project would consist of mowing, spraying, and prescribed fire as indicated in the Easter Lake forestry management plan. The objectives of this practice include:

- Restoration of woodland to historic oak-hickory component by removal of invasive (honeysuckle, multiflora rose, autumn olive, etc.) and less desirable, shade-tolerant native species (elm, ash, hackberry, etc.)
- Improved infiltration of storm water due to increase in herbaceous understory
- Reduction in nutrient loading into the lake via infiltration and soil processes
- Improvement in wildlife habitat and subsequent increases in wildlife use and opportunities for public to view wildlife
- Improvement in aesthetic properties and opportunities for public use of the woodland (wildflower viewing, mushroom hunting, etc.)
- Opportunities for public education - sustainable landscaping, etc.

This project will include several practices to restore this woodland including removal of invasive species, modified crop tree release, and prescribed fire.

### **METHODS**

**Vegetation Removal:** Where terrain allows, a skid steer mounted forestry mower will be used to remove invasive/undesirable trees and shrubs smaller than 6" diameter at breast height (dbh). Hand cutting will occur to remove vegetation along ravines. Stumps will be immediately treated with herbicide to limit resprouting. Additional herbicide will be utilized to control resprouts during the first year after forestry mowing. Resprouts will be treated with selective herbicide during the second year of the project as needed.

**Crop Tree Release:** Upon removal of smaller (less than 6" dbh) invasive/undesirable trees and shrubs, crews will be dispatched to complete removal of invasive/undesirable species and to selectively remove all competing trees around "crop" trees. Crop trees are typically high-value mast-producing species (oak, hickory, walnut, etc.) that have superior size and structure. These specimens provide food for wildlife and seed for future generations of crop trees. It is important to note that oaks, hickories and walnuts

are shade-intolerant species and consequently germination will be poor or nonexistent in areas with heavy mid-story component. PCCB will work with the District DNR forester to come up with a stand prescription.

**Prescribed fire:** In order to maintain control of invasive species and less-desirable shade-tolerant tree species, prescribed fire will be employed at regular intervals to achieve the following:

- Control of invasive and undesirable woody species
- Recycling of nutrients bound up in leaf material
- Increasing soil temperature due to removal of shading and blackening of soil surface. This favors woodland wildflowers/spring ephemerals (herbaceous understory).
- Removal of down dead wood to allow easier access for future management. Goal is to leave sufficient dead wood to preserve the diversity that depends on its existence (insects, fungus, etc.)

Limitations on burning due to the site's urban location may necessitate the use of alternatives to prescribed burning such as mowing. Spot spraying may continue beyond the first two years of the project, if needed.

This restoration plan supports the Easter Lake Watershed Management Plan in that it will help improve water quality by increasing the amount of desirable herbaceous vegetation, which will increase water infiltration, reduce runoff, and remove excess nutrients from the watershed. This plan supports the invasive species removal goal of the Plan, in that vegetation removals will take out additional acres of honeysuckle and autumn olive that currently choke out the native vegetation. Finally, the aesthetic and educational value of this restoration will help reconnect residents and visitors to the natural amenities of Easter Lake and its surroundings.

#### **TIMELINE**

##### Summer-Fall 2024

- Forestry mow invasive and undesirable species under 6" dbh – Aug-Nov
- Spray stumps immediately post mowing – Aug-Nov

##### Winter 2024-2025

- Hand removal of invasive/undesirable species that weren't forestry mowed – Dec - March
- Perform crop tree release based on stand prescription – Dec – March

##### Spring-Summer 2025

- Spray resprouts with herbicide – June - September

Summer 2026

- Mow and/or spray resprouts June – September

Winter 2026-2027

- Prescribed burn of project site (conditions permitting) - December

Continue prescribed burn of project site every 5-7 years in perpetuity.

**RESTORATION BUDGET**

Activity	Cost per Acre	Total Area	Total Cost
Invasive Species Control			
Forestry Mowing	\$600	5.6	\$3,360.00
Herbicide application (3)	\$50 x 3	5.6	\$840.00
Prescribed fire	\$35	5.6	\$196.00
Timber Stand Improvement – 14.1 ac			
<6” dbh – drop/buck up / >6” dbh girdle	\$1,500	5.6	\$8,400.00
<b>Total</b>			<b>\$12,796.00</b>

**TOTAL PROJECT COST: \$12,796.00**

Funding Allocation

Section 319 Funding (75%): \$9,597.00

PCCB (25%): \$3,199.00

**Native Prairie Buffer Establishment**

**SOUTH ENTRANCE**

**DESCRIPTION**

PCCB is proposing the conversion of approximately 3.1 acres of non-native brome grass/invasive vegetation along a ravine on the south side of Easter Lake to native prairie. The objectives of this practice include:

- Infiltration of storm water
- Reduction in nutrient loading to the lake via infiltration and soil processes
- Improvement in wildlife habitat and subsequent increases in wildlife use and opportunities for public to view wildlife
- Increased habitat for pollinators
- Improvement of aesthetic properties
- Opportunities for public education -sustainable landscaping, etc.
- Increased carbon sequestration

The planting will include a diverse mix of native grasses (15 species) and wildflowers (65+ species) selected to match the hydrology of the site's soils and provide visual impact for park users, including those utilizing the trail that bisects the area.

**METHODS**

**Vegetation Removal:** A combination of herbicide, prescribed burning, and tillage will be used to remove existing brome grass and other undesirable nonnative species.

**Seeding:** Once the existing vegetation has been removed, additional tillage will be employed to smooth and firm soils. The seeding will be a diverse mix of native grasses (10+), sedges (5+) and wildflowers

(50+) that will enhance aesthetic appeal, improve water quality via infiltration and provide quality habitat for wildlife. Seed will be broadcast using a Vicon seeder and incorporated using a cultipacker. The areas with higher slopes will be hydro-mulched to reduce erosion potential.

**Maintenance:** The area will be mowed two or three times during the first growing season after planting to open the plant canopy and allow light to reach the young prairie seedlings. Mowing also limits seed set by rapidly-growing annual weeds and thus limits the potential for future competition. Mowing typically occurs when weeds overtop the prairie species and varies from 6" to 12" depending on the stage of the planting.

Depending on weed pressure, the area will be mowed one or two times the year after planting for the reasons listed above.

A prescribed burn of the new planting will be conducted two years after planting and at approximately five-year intervals thereafter to achieve the following:

- Removal of thatch making it easier for plants to grow.
- Recycling of nutrients bound up in thatch
- Increasing soil temperature due to removal of shading and blackening of soil surface. This favors warm-season native species
- Mortality of remaining annual weed seedlings

Limitations on burning due to the site's urban location may necessitate the use of alternatives to prescribed burning such as grazing and/or haying. Spot spraying will be implemented to control perennial weeds beginning the third year after planting, if needed.

This restoration plan supports the Easter Lake Watershed Management Plan in that it will help improve water quality by increasing the amount of native prairie, which will increase water infiltration, reduce runoff, and reduce excess nutrients in the watershed. Additional areas of taller vegetation will also aid in discouraging waterfowl use of the area. This plan supports the invasive species removal goal of the Plan, in that vegetation removals will take out additional acres of garlic mustard, crownvetch, and bird's foot trefoil that currently choke out areas of native vegetation. Finally, the aesthetic and educational value of this restoration will help reconnect residents and visitors to the natural amenities of Easter Lake and its surroundings.

## **TIMELINE**

### Fall 2024

- First application of herbicide (glyphosate) – September-October

### Spring 2025

- Second application of herbicide (glyphosate) – April/May
- Harrowing and other tillage – May
- Broadcasting & incorporation of seed – May

### Summer 2025

- Mowing for weed control (3 times) – June – Sept

### Summer 2026

- Mowing for weed control (2 times) – June - Sept

### Summer 2027

- Mowing for weed control (if needed) – June – Sept

Prescribed burning of planted sites in early spring will begin in 2027 and continue at ~3-5 year intervals in perpetuity.

## **RESTORATION BUDGET**

<b>Restoration Area – 3.1 acres</b>		
<b>Activity</b>	<b>Cost per Acre</b>	<b>Total Cost</b>
<b>Vegetation Removal</b>		
Herbicide application (2)	\$50 x 2	\$310
Harrowing	\$12	\$37.20
<b>Native Planting</b>		
Seed Mix	\$1,500	\$4,650
Broadcasting	\$15	\$46.50
Cultipacking	\$8	\$24.80
<b>Maintenance</b>		
Mowing – Year 1 (3)	\$22 x 3	\$204.60
Mowing – Year 2 (2)	\$22 x 2	\$136.40
Prescribed fire	\$35	\$108.50
<b>Total</b>		<b>\$5,518.00</b>

## **TOTAL PROJECT COST: \$5,518.00**

### Funding Allocation

Section 319 Funding (75%): \$4,138.50

PCCB (25%): \$1,379.50

## **NORTHWEST CORNER**

### **DESCRIPTION**

PCCB is proposing the conversion of approximately 1.5 acres of non-native reed canary grass/invasive vegetation along the shoreline on the northwest side of Easter Lake to native prairie. The objectives of this practice include:

- Infiltration of storm water
- Reduction in nutrient loading to the lake via infiltration and soil processes
- Improvement in wildlife habitat and subsequent increases in wildlife use and opportunities for public to view wildlife
- Increased habitat for pollinators
- Improvement of aesthetic properties
- Opportunities for public education -sustainable landscaping, etc.
- Increased carbon sequestration

The planting will include a diverse mix of native grasses (15 species) and wildflowers (65+ species) selected to match the hydrology of the site's soils and provide visual impact for park users, including those utilizing the trail that bisects the area.

### **METHODS**

**Vegetation Removal:** A combination of herbicide, prescribed burning, and tillage will be used to remove existing reed canary grass and other undesirable nonnative species.

**Seeding:** Once the existing vegetation has been removed, additional tillage will be employed to smooth and firm soils. The seeding will be a diverse mix of native grasses (10+), sedges (5+) and wildflowers (50+) that will enhance aesthetic appeal, improve water quality via infiltration and provide quality habitat for wildlife. Seed will be broadcast using a Vicon seeder and incorporated using a cultipacker. The areas with higher slopes will be hydro-mulched to reduce erosion potential.



**Maintenance:** The area will be mowed two or three times during the first growing season after planting to open the plant canopy and allow light to reach the young prairie seedlings. Mowing also limits seed set by rapidly-growing annual weeds and thus limits the potential for future competition. Mowing typically occurs when weeds overtop the prairie species and varies from 6" to 12" depending on the stage of the planting.

Depending on weed pressure, the area will be mowed one or two times the year after planting for the reasons listed above.

A prescribed burn of the new planting will be conducted two years after planting and at approximately five-year intervals thereafter to achieve the following:

- Removal of thatch making it easier for plants to grow.
- Recycling of nutrients bound up in thatch
- Increasing soil temperature due to removal of shading and blackening of soil surface. This favors warm-season native species
- Mortality of remaining annual weed seedlings

Limitations on burning due to the site's urban location may necessitate the use of alternatives to prescribed burning such as grazing and/or haying. Spot spraying will be implemented to control perennial weeds beginning the third year after planting, if needed.

This restoration plan supports the Easter Lake Watershed Management Plan in that it will help improve water quality by increasing the amount of native prairie, which will increase water infiltration, reduce runoff, and reduce excess nutrients in the watershed. Additional areas of taller vegetation will also aid in discouraging waterfowl use of the area. This plan supports the invasive species removal goal of the Plan, in that vegetation removals will take out additional acres of reed canary grass that currently choke out areas of native vegetation. Finally, the aesthetic and educational value of this restoration will help reconnect residents and visitors to the natural amenities of Easter Lake and its surroundings.

## **TIMELINE**

### Fall 2024

- First application of herbicide (glyphosate) – September-October

### Spring 2025

- Second application of herbicide (glyphosate) – April/May
- Harrowing and other tillage – May
- Broadcasting & incorporation of seed – May

### Summer 2025

- Mowing for weed control (3 times) – June – Sept

### Summer 2026

- Mowing for weed control (2 times) – June - Sept

### Summer 2027

- Mowing for weed control (if needed) – June – Sept

Prescribed burning of planted sites in early spring will begin in 2027 and continue at ~3-5 year intervals in perpetuity.

**RESTORATION BUDGET**

<b>Restoration Area – 1.5 acres</b>		
<b>Activity</b>	<b>Cost per Acre</b>	<b>Total Cost</b>
<b>Vegetation Removal</b>		
Herbicide application (2)	\$50 x 2	\$150.00
Harrowing	\$15	\$22.50
<b>Native Planting</b>		
Seed Mix	\$1,500	\$2,250.00
Broadcasting	\$15	\$22.50
Cultipacking	\$10	\$15
<b>Maintenance</b>		
Mowing – Year 1 (3)	\$25 x 3	\$112.50
Mowing – Year 2 (2)	\$25 x 2	\$75.00
Prescribed fire	\$35	\$52.50
<b>Total</b>		<b>\$2,700.00</b>

**TOTAL PROJECT COST: \$2,700.00**

Funding Allocation

Section 319 Funding (75%): \$2,025.00

PCCB (25%): \$675.00

# Project Location Map



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