

AGENDA

Red Run Intercounty Drain Drainage Board Macomb and Oakland Counties

April 19, 2023 – 10:00 a.m.

Office of the Oakland County Water Resources Commissioner
One Public Works, Building 95 West
Waterford, Michigan, and Microsoft Teams

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development
Candice Miller, Macomb County Public Works Commissioner
Jim Nash, Oakland County Water Resources Commissioner

2. Approval of the meeting agenda for April 19, 2023
3. Approval of Drainage District Board Meeting Minutes from March 15, 2023
4. Public Comment
5. Red Run Freedom Hill
 - a. HRC - Account of Project Standing
 - b. Pipeline Magazine Article
6. Detroit Arsenal Regional Defense Assessment of Resilience Phase II Partnership Letter
7. Present trial balance
8. Present for approval payment of invoices in the amount of \$2,995.23
9. Other business
10. Adjourn

Agenda Item No. 3

Board Meeting Minutes from
March 15, 2023

Minutes of the Meeting
of the Intercounty Drainage Board for the
Red Run Drain

March 15, 2023

Minutes of the regular meeting of the Drainage Board of the Red Run Drain Drainage District held at the office of the Oakland County Water Resources Commissioner, One Public Works Drive, Building 95 West, Waterford, Michigan on the 15th day of March at 10:30 a.m. Eastern Standard Time and via Microsoft Teams.

Present:

Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Candice Miller, Member and Macomb County Public Works Commissioner; and Anne Vaara for Jim Nash, Secretary and Oakland County Water Resources Commissioner.

Also Present: Representing the office of the Macomb County Public Works Commissioner; Norb Franz, Jeff Bednar and Danielle Devlin. Representing the office of the Oakland County Water Resources Commissioner: Steve Korth, Gary Nigro, Brian Coburn, George Nichols, Meg Koss, and Stephanie Lajdziak. Others in attendance: Shannon Bergt (U.S. Army); Jamie Burton (Hubbell, Roth & Clark).

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 10:34 a.m.

2. Agenda.

Motion by Vaara, supported by Miller, to approve the March 15, 2023, agenda as presented.

Adopted: YEAS – 3
NAYS – 0

3. Minutes.

Motion by Miller, supported by Vaara, to approve the minutes of the February 22, 2023, meeting.

Adopted: YEAS – 3
NAYS – 0

4. Public Comment.

None.

5. Freedom Hill.

Jamie Burton gave the Board a brief update on the Freedom Hill projects. He advised that due to the winter conditions, there has not been a lot of progress since the last meeting. Mr. Burton noted that minimal improvements will be done until the fall when plantings will be done to avoid interference with work to be done by the invasive species contractor.

Motion by Vaara, supported by Miller, to receive and file the Freedom Hill update as presented.

Adopted: YEAS – 3
NAYS – 0

6. Detroit Arsenal Regional Defense (DAR2) Risk Assessment

Shannon Bergt with U.S. Army Garrison – Detroit Arsenal provided the Board with a presentation on energy resilience as it pertains to the Drainage District (attached). She gave a brief background on the history of the Detroit Arsenal Regional Defense Assessment of Resilience (DAR2) and expressed the importance of this program due to more frequent and severe disasters that affect the critical infrastructure in Macomb County and surrounding communities. Due to this infrastructure and the importance of its security, DAR2 would be extremely beneficial to the Drainage District.

Ms. Bergt walked the Board through the DAR2 process and advised that there are 3 phases in which the DAR2 process goes through. First, they perform the initial outreach to community stakeholders and identify the critical infrastructure within the community. After the initial outreach, they would then collaborate with the community stakeholders, which would include a stakeholder workshop to identify the vulnerabilities that need attention. The last and final step would be to make recommendations for resilience improvements implementation.

Ms. Bergt touched on the benefits of having the Office of Local Defense Community Cooperation (OLDCC) as a partner, which would make available different funding opportunities for projects that would fall within the scope of the study. She also emphasized that the goal of this process is to do everything possible to protect the region's infrastructure and although there is no Board action to move forward at this meeting, she advised that a letter would be put together and presented to the Board next month to move forward with the initial outreach. Discussion ensued as to the different funding opportunities and the effects of the collaboration.

Motion by Vaara, supported by Miller, to receive and file the Detroit Arsenal Regional Defense Risk Assessment presentation as presented.

Adopted: YEAS – 3
NAYS – 0

7. Trial Balance.

Mr. Nichols presented the Trial Balance report dated March 9, 2023, indicating a cash available balance of \$1,194,873.31. Motion by Miller, supported by Vaara, to receive and file the updated Trial Balance as provided.

Adopted: YEAS – 3
NAYS – 0

8. Other Business.

George Nichols reminded the Board that weather permitting, the walk through for the Drainage District is scheduled for Thursday, May 11th.

9. Adjourn.
Motion by Vaara, supported by Miller, to adjourn the March 15, 2023, meeting at 11:50 a.m.

Adopted: YEAS – 3
NAYS – 0

Next Regular Meeting: *Office of the Oakland County Water Resources Commissioner, One Public Works Drive, Building 95 West, Waterford, Michigan* and electronically at 10:00 a.m., Eastern Standard Time on April 19, 2023.



Anne Vaara, Acting Secretary
Red Run Intercounty Drain Drainage Board

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of the Red Run Intercounty Drain Drainage Board, at a meeting held on the 15th day of March 2023 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, as may be amended from time to time and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 15th day of March 2023.



Anne Vaara, Acting Secretary
Red Run Intercounty Drain Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Red Run Freedom Hill

Account of Project Standing

APS #: 28

Time Period: March 01, 2023 thru March 31, 2023

Prepared By: Nancy Kolinski

Date Issued: April 07, 2023

Project Task Summary:

Construction Update:

- Project on winter shut down

Focus of Efforts in Next Period /Spring:

- Failed B&B (balled & burlapped) at Schoenherr Rd trailhead, Metro Pkwy trailhead, and along Red Run, to be replaced (timeframe: Spring 2023).
- Native seeding of the area beneath the power transmission lines on the north side of Red Run remains to be completed (Spring 2023). Site preparation will need to be re-done (removal of existing vegetation, tilling of earth, etc.), prior to placement of Lo Prairie seed and mulch.
- Due to the amount of invasive species (Japanese Hops) treated in 2022, plantings are being postponed until Fall
 - Native shrub plantings in the Transition Side Slope along Sterling Relief remain to be planted (Fall 2023).
 - Bare-root tree plantings in the Transition Side Slope along Red Run remain to be planted (Fall 2023).
 - Planting of bare-root shrubs and herbaceous plugs along the south side of the amphitheater to be planted (Fall 2023).
- Site visit to review project area and identify impacts from winter season.

Critical Decisions Made:

- N/A

Outstanding Critical Questions:

- N/A

Client Assistance Needed:

- Access concerns along Metro Parkway
- Trail flooding and possible seasonal closures.

Schedule Concerns

- Contract with LJ Construction will be extended thru Fall of 2023

Scope and/or Budget Concerns:

- None at this time

Account of Project Standing

Red Run Drain Supplemental Services

Project Task Summary:

Task 1 – Permitting- In Progress

- Submitted USACE Section 408 Certification – Full approval unknown.

Task 2 – Drainage District Assistance- In Progress

Task 3 – Monitoring Assistance- In Progress

Task 4– Grant Reporting- In Progress

- No work for this period

Task 5 – Meetings- No work requested under this task

Task 6 – USACE Phase 2 Coordination-. Red Run South bank (AEI): Design started. Biweekly meetings of the design team occur. 65% plans submitted.

Task 7 – Project Signage- No work requested under this task

Miscellaneous:

- GWK Outfall project (KZF): Final documents submitted to USACE. Funding for implementation is yet to be allocated by USACE.
- Invasive species – Coordination continues.
 - Next treatment May 2023
 - Site visit with GLRI occurred. Goal was for GLRI to become familiar with grant area.
- Red Run Spill Response USACE Work Plan
 - Waiting on USACE
- Annual Red Run Drain Walk Thru with USACE scheduled for May 11th
- Red Run H&H study - Plan is being renamed to Red Run Resilience Study. Staff is working with the Office of Local Defense Community (OLDCC) and University of Michigan. Discussion ongoing with staff and OLDCC. The study is expected to have a 10% local match.

Critical Decisions Made:

- N/A

Outstanding Critical Questions:

- No at this time.

Client Assistance Needed:

- None at this time

Schedule Concerns

- N/A

Scope and/or Budget Concerns:

- N/A

Intercounty drain project creates new hike/bike path

By: Norb Franz, Communications Manager, Macomb County Public Works Office

Walkers, joggers and bicyclists have a new scenic route to enjoy in Macomb County as part of a recently completed intercounty drain project to halt erosion near a closed landfill.

The new 1.35-mile hike/bike trail is located along the Red Run Drain and the Sterling Relief Drain in the city of Sterling Heights. It branches south from the popular Freedom Trail hike/bike path on Metropolitan Parkway, curves behind Freedom Hill County Park and continues west to Schoenherr Road. The 100-acre park, opened in 1974 on a site that includes a closed 40-acre landfill, is best known as the home of the Michigan Lottery Amphitheatre.

"The trail makes a beautiful area accessible to the public. It's a suburban area but you feel like you're up north," Macomb County Public Works Commissioner Candice S. Miller said.

The Red Run drains much of southeast Oakland County and carries flow through part of the City of Warren and crosses into neighboring Sterling Heights. Before connecting with the Clinton River – which flows into Lake St. Clair – the Red Run Drain is met by a tributary, the Sterling Relief Drain.

Unfortunately, the banks of the Red Run eroded significantly over the years behind Freedom Hill County Park, particularly on the north side. In some spots, the erosion crept to within 10 feet of the closed landfill.

The idea for a non-motorized trail in that location was added during plans to stabilize the north bank of the Red Run Drain.

As part of the drainage work in the open channel drain, excavation contractor L.J. Construction, based in Clifford, Mich., started work in spring 2022 by removing sediment from the Red Run. The company also painstakingly built three new "J-hook" peninsulas just beyond where the Sterling Relief Drain flows into the Red Run. Known as "J-hooks" because of their shape, each is made of thousands of limestone boulders, and they work in unison to direct strong flow – particularly after heavy rain events – toward the center of the open channel for a long-term improvement away from the banks.

In recent years, maintenance vehicles created a rough path in some areas near the north bank behind the park and along the Sterling Relief Drain. However, it was not open to the public and was being washed away by erosion.

The Public Works Office and the Macomb County Department of Planning and Economic Development explored the idea of developing a hike/bike trail that could be shared with the public behind Freedom Hill and west to



Macomb County Public Works Commissioner Candice S. Miller discusses the Red Run Drain bank restoration and hike/bike trail project in Sterling Heights.

BIKE PATH CONT.



Construction of “j-hooks” in the red run drain

Schoenherr Road. The Red Run Intercounty Drain Board and the Sterling Relief Drain Board approved the plan, and Sterling Heights officials endorsed it.

The 1.35-mile path along the north bank was carved, and top soil was used to make the trail. The planting of 475 trees, 2,500 shrubs and 4,000 native pollinator plants along the north side of the Red Run Drain and within the Sterling Relief Drain began this year and will be completed in spring 2023. Once fully established, the plantings help prevent erosion and act as green infrastructure to capture and filter an estimated 200,000 gallons of storm water runoff per year to remove phosphorus and nitrogen. It’s also part of the Green Macomb Urban Forest Partnership and will increase habitat biodiversity.



During strong or higher flow, especially after heavy rain, the three completed “J-hooks” at the Red Run Drain work in unison to prevent erosion of the drain bank by directing the flow toward the center of the channel.

The \$1.3 million drain restoration was funded by the 22 communities in the Red Run Intercounty Drainage District. The trail development and plantings were funded with a \$300,000 grant

from the National Fish and Wildlife Foundation, and \$260,000 in state highway funds to Macomb County.

Other partners in the project included: Macomb County Department of Roads; Lake St. Clair CISMA; Clinton River Watershed Council; Oakland County Water Resource Commissioner’s Office; South Macomb Disposal Authority; Consumers Energy; and engineering consultants Hubbell, Roth & Clark.

County and city officials touted the combined environmental, recreational and storm water management aspects of the project.

Macomb County Executive Mark Hackel said the project also has economic benefits. Noting that the Red Run Drain connects to the Clinton River, which flows into Lake St. Clair, Hackel said clean lake water is important.

“Leveraging the natural beauty of Macomb County and the creativity of our environmental champions, we are developing transformational, recreational and environmental projects. This trail and restoration plan has helped us reimagine an underutilized area that is quickly becoming a celebrated community asset. Whether you are an avid runner or someone who loves nature, we welcome you to come and explore,” Hackel said.

“This trail project, born out of need for an access road along the Sterling Relief and Red Run drains, is a gift to our community in a lot of ways,” said Sterling Heights Mayor Michael Taylor. “The trail creates yet another non-motorized asset for our community, provides an appealing option for walking, running and biking and aligns well with Sterling Heights’ commitment to sustainability. We’re grateful for the intergovernmental collaboration we have that allow projects like this to happen.”

The Red Run Drain Board includes Miller, Oakland County Water Resources Commissioner Jim Nash and Chairman Michael Gregg, intercounty drain program manager at the Michigan Department of Agriculture & Rural Development.

“In addition to the collaboration of the community and county stakeholders, on behalf of the Red Run Board I want to acknowledge HRC for their engineering design, perseverance through the protracted EGLE/U.S. Army Corps permitting

process and overall construction management that made this project possible,” Gregg said.

“This project brings all the aspects of our commitment to improving our infrastructure. We are ensuring the long-term sustainability of our storm water system while using green infrastructure and community collaboration to create a truly enjoyable natural atmosphere and recreational experience,” said Nash.

The Sterling Relief Drainage District Board includes Miller, Macomb County Commissioner Joseph Romano and Macomb County Department of Roads Director Bryan Santo.

A video of the partnership/project can be seen on the Macomb County Public Works Office YouTube channel at https://youtu.be/DWH_OPQzo-Q



The completed hike/bike trail along the Red Run Drain portion of the 1.35-mile path



The completed hike/bike trail along the Sterling Relief Drain portion of the 1.35-mile path



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Agenda Item No. 6

**Detroit Arsenal Regional Defense Assessment of
Resilience Phase II Partnership Letter**



**DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON – DETROIT ARSENAL
6501 E. ELEVEN MILE ROAD
DETROIT ARSENAL, MI 48397-5000**

April 19, 2023

SUBJECT: Request to Partner with the Red Run Intercounty Drain Drainage District on a Grant from the U.S. Department of Defense Office of Local Defense Community Cooperation (OLDCC), Installation Resilience Program

Red Run Intercounty Drain Drainage Board
Office of the Oakland County Water Resources Commissioner
One Public Works, Building 95 West
Waterford, MI 48328

Dear Board Members:

The United States Army Garrison - Detroit Arsenal (USAG-DTA) requests to partner with the Red Run Intercounty Drain Drainage District (RRIDDD) in a grant from the Department of Defense, Office of Local Defense Community Cooperation (OLDCC), Installation Resilience Program. This request is a direct result of findings and recommendations from the OLDCC funded at the Detroit Arsenal Regional Defense Assessment of Resilience (DAR2), (Enclosure).

The Department of Defense (DoD) Climate Risk Analysis has determined that the planet's changing climate has a significant impact on Defense Department's missions, plans, supply chains and installations. Therefore, DoD has elevated climate change as a national security priority; integrating climate considerations into policies, strategies and partner engagements. The DoD and The Army's decisions around climate change and those of neighboring communities are intrinsically interconnected. The DoD is working to ensure climate assessments are based on the best available, validated, and actionable science that informs the most likely climate change outcomes. Data sources and models must be updated and monitored with consideration to the national energy, security and operational impacts.

The scope of this grant will include two planning charettes with key stakeholders, a comprehensive regional Hydrologic and Hydraulic (H&H) Study, predictive modeling for the region to include, but not limited to, the RRIDDD and major utility infrastructure, and a comprehensive report with actionable recommendations for regional flood mitigation measures.

Under this request, the RRIDDD would act as the non-federal partner with the U.S. Army Garrison - Detroit Arsenal for the Federal Fiscal Year 2023, Phase I and Federal

Fiscal Year 2024, Phase II grants. Under both phases of this request, the RRIDDD would apply for an OLDCC Installation Resilience grant, act as the grant administrator, and provide a minimum of a 10% funding match; which can consist of staff time, cash, or material donation. The requests are as follows:

a. Federal Fiscal Year 2023, Phase I request to OLDCC Installation Resilience Program for the DAR2 H&H study for \$750k with estimated responsibility of \$75k to the RRIDDD in match.

b. Federal Fiscal Year 2024, Phase II request to OLDCC Installation Resilience Program for the DAR2 H&H study for \$750k with estimated responsibility of \$75k to the RRIDDD in match.

The USAG-DTA, the OLDCC, and the United States Army Corps of Engineers anticipate that the findings of the Phase I H&H study and the Phase II H&H report will provide actionable items based on science and predictive modeling. These courses of action will provide the basis for further partnership opportunities, funding requests and projects for climate risk mitigation projects with regional impact.

My Point of Contact for this matter is Ms. Shannon Bergt, Detroit Arsenal Energy Manager at (248) 635-5175 or shannon.m.bergt.civ@army.mil.

Sincerely,

Enclosure
DAR2

Cherie Westphal
Garrison Manager (Acting)

Agenda Item No. 7

Trial Balance



Trial Balance

08:58 AM

04/12/2023

Page 1 of 1

Organization Oakland County
Periods FY2023 : Apr
Ledger Actuals
Accounting Worktag FND82902 Red Run Federal Drain Ch21
Book Operating
Company Currency USD
Translation Currency USD
Run 04/12/2023 08:57 AM

Consolidation Data

Ledger Account	Beginning Balance	Debit Amount	Credit Amount	Ending Balance
100100:Cash - Operating	1,221,119.22	5,166.54	2,047.35	1,224,238.41
101500:Undeposited Cash	0.00	0.00	0.00	0.00
104100:Accrued Interest on Investment	6,628.89	0.00	1,098.50	5,530.39
126100:Due from Municipalities	0.00	0.00	0.00	0.00
126105:Due from Municipalities-AR Con	0.00	0.00	0.00	0.00
201210:Vouchers Payable AP Cont	(2,085.25)	0.00	0.00	(2,085.25)
211100:Due to Primary Government	0.00	0.00	0.00	0.00
228100:Deposits Liability	(28,244.40)	0.00	0.00	(28,244.40)
230852:Accounts Payable	0.00	0.00	0.00	0.00
381350:FB Restricted Programs	(1,224,784.17)	0.00	0.00	(1,224,784.17)
450100:Cash Sweep	0.00	2,009.25	2,009.25	0.00
605000:Special Assessments	(202,596.00)	0.00	0.00	(202,596.00)
630000:Charges for Services	(2,009.25)	0.00	0.00	(2,009.25)
655000:Investment Income	(7,701.74)	1,136.60	3,157.29	(9,722.43)
730000:Contractual Services	227,743.06	0.00	0.00	227,743.06
770000:Internal Support Expenditures	11,929.64	0.00	0.00	11,929.64
Total	0.00	8,312.39	8,312.39	0.00

Cash	\$1,224,238.41
Vouchers Payable	(2,085.25)
Permit Held	(28,244.40)
Total Cash Available	\$1,193,908.76

Agenda Item No. 8

Invoices

MEMO TO: Mr. Jim Nash, Chairman
of the Intercounty Drainage Board for the RED RUN FEDERAL DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

*FOR SHAWN
PHELPS*

DATE: April 19, 2023

SUBJECT: Request for Approval of Invoices

Request for Board approval of payment of the following invoices:

Date	Ref No.	Paid To	For	Amount
	TBP	Hubbell, Roth, & Clark Inc	Inv # 0204748- Contracted Services - 03/04/23 - Proj# 1-2895	\$ 909.98
3/24/2023	SINV00170459	ALOIA Law	Inv # 28535 - Legal Services - 02/27/23 - Proj#1-2895	1,296.75
3/24/2023	SINV00170457	ALOIA Law	Inv # 28368 - Legal Services - 01/31/23 - Proj#1-2895	788.50
			Total	\$ 2,995.23

Agenda Item No. 9

Other Business

Agenda Item No. 10

Adjourn