

*** All present are expected to conduct themselves in accordance with our City's Core Values ***



OFFICIAL NOTICE AND AGENDA

of a meeting of a City Board, Commission, Department Committee, Agency, Corporation, Quasi-Municipal Corporation or Sub-unit thereof.

Notice is hereby given that the Park and Recreation Committee of the City of Wausau, Wisconsin will hold a regular or special meeting on the date, time and location shown below.

Meeting of the: **PARKS AND RECREATION COMMITTEE OF THE CITY OF WAUSAU**
Date/Time: **Monday, July 12, 2021 at 5:30pm**
Location: **City Hall (407 Grant Street, Wausau WI 54403) - Council Chambers**
Members: **Tom Neal, Patrick Peckham, Tom Kilian, Lou Larson, Sarah Watson**

AGENDA ITEMS FOR CONSIDERATION (All items listed may be acted upon)

- 1 Call the Meeting to Order
- 2 Public Comment or Suggestions
- 3 Approve Minutes - June 7, 2021
- 4 Discussion and Possible Action Recommending Approval of 2022 Staffing Requests
- 5 Discussion and Possible Action Regarding Alder Use of Park Shelters
- 6 Discussion on a "Resolution to Support Environmental Justice" Reviewed by Public Health & Safety on June 29, 2021
- 7 Discussion and Possible Action of Interest in a City Parks Tour
- 8 Educational Items
 - A. Park Update (Urban Forestry, Goats, Bike Share, Swimming Pools, Playgrounds, Riverside Park Shelter, ADA Corrections, Routine Operations)
 - B. Riverside Park Testing Update
 - C. Trees In Reservoir Park
 - D. 2nd Dog Park Location Update
- 9 Future Agenda Items -
- 10 Next Meeting Date - Monday, August 2, 2021 at 4:30pm
- 11 Adjournment

Pat Peckham, Chair

Due to the COVID-19 pandemic, this meeting is being held in person and via teleconference. Members of the media and the public may attend in person, subject to the social distancing rules of maintaining at least 6 feet apart from other individuals, or by calling 1-408-418-9388. The Access Code is 146 918 2809. Password: ParkComm07122021 (7275266607122021 from phones).

Individuals appearing in person will either be seated in the Council Chambers or an overflow room, subject to the social distancing rules. Space available will be on a first come, first served basis. All public participants' phones will be muted during the meeting. Members of the public who do not wish to appear in person may view the meeting live on the City of Wausau's YouTube Channel <http://www.tinyurl.com/WAAMedia>, live by cable TV, Channel 981, and a video is available in its entirety and can be accessed at <https://tinyurl.com/WausauCityCouncil>. Any person wishing to offer public comment who does not appear in person to do so, may e-mail Jamie.polley@co.marathon.wi.us with "Parks Committee public comment" in the subject line prior to the meeting start. All public comment, either by email or in person, will be limited to items on the agenda at this time. The messages related to agenda items received prior to the start of the meeting will be provided to the Chair.

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 (ADA), the City of Wausau will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs or activities. If you need assistance or reasonable accommodations in participating in this meeting or event due to a disability as defined under the ADA, please call the ADA Coordinator at (715) 261-6590 or ADAServices@ci.wausau.wi.us to discuss your accessibility needs. We ask your request be provided a minimum of 72 hours before the scheduled event or meeting. If a request is made less than 72 hours before the event the City of Wausau will make a good faith effort to accommodate your request.

This Notice was posted at City Hall and faxed to the Daily Herald newsroom on 7/8/2021 @ 10:30 a.m. Questions regarding this agenda may be directed to Jodi Luebke, Park Office (715) 261-1560.

Distribution List: City Website, Media, WSD-Admin, Alderpersons, Mayor, Polley, Dept. Staff, Maryanne Groat, Brad Lenz, Eric Lindman, Lance Leonhard, Wisconsin Woodchucks, Wausau Events, Public Access, Wausau River District

AGENDA SUMMARY

4. Discussion and Possible Action Recommending Approval of 2022 Staffing Requests

Staff will review the current staffing structure, number of employees and recently added park facilities and tasks under the responsibilities of the department. Based on the current workload staff is requesting three new full time positions. A description of each position is included in the packet. One position is a Recreation Supervisor that would be a direct report to the current Recreation Superintendent. This position would be funded 40% by the County and 60% by the City. The primary responsibility of this position would be aquatics and managing the three outdoor aquatic centers in addition to other aquatic programming. Adding this position would allow the Recreation Superintendent to focus on enhancing the recreations programs offered by both the City and the County increasing the program revenue received for each entity.

The second position requested is a Maintenance Technician. This position would be under the direction of the Operations Manager and is needed based on the added amenities, events and maintenance requirements. Hiring a maintenance technician will allow the department to enhance the services we provide to the community and allow other staff to more efficiently manage their work load. This position would be funded 50% by the County and 50% by the City.

The third position request is for an Urban Forestry Specialist. This position is necessary due to implementation of the Emerald Ash Borer management plan for the next 12-15 years in addition to the daily tasks required of the urban forest. This position would be funded 90% by the City and 10% by the County.

The Park and Recreation Committee is asked to recommend the addition of these three positions to the City Council for inclusion into the 2022 budget.

5. Discussion and Possible Action Regarding Alder Use of Park Shelters

Alder Larson requested that this item be placed on the meeting agenda for discussion. Current practice relating to Alder use of parks shelters is that Alders requesting to use a park shelter for a public meeting to discuss a topic of interest is granted at no charge if the shelter is available. Alders should not be requesting use of park shelters for neighborhood group regular meetings. The current policy is that neighborhood groups are granted one free use of a park shelter to conduct an annual meeting. If they would like to use a shelter for any other meeting the current shelter fee would be required. The shelters are utilized by the public on a regular basis and are a revenue source for the City.

6. Discussion on a "Resolution to Support Environmental Justice" Reviewed by Public Health & Safety on June 29, 2021

Alder Kilian requested that this item be placed on the agenda for further discussion. The resolution was discussed by Public Health & Safety Committee on June 29 and is included in the packet.

7. Discussion and Possible Action of Interest in a City Parks Tour

The Committee is asked to discuss the desire to set up a tour of the City parks. If this is of interest the Committee can discuss dates to schedule the tour and sites of interest.

8. Educational Items

8A. Park Update

Urban Forestry/Horticulture:

Storm damage cleanup: Another significant windstorm moved through Wausau on Monday, July 5.

AGENDA SUMMARY

Goats on Barker Stewart Island

The goats arrived on July 7th and will be on the island for 2-3 weeks. We are working on a special event either late next week or the following week. More information is to come. In your packet is a list of frequently asked questions.

Bike Share:

The City Attorney is still working on the contract with Tandem Mobility. Once that is finalized we will have about a month of set up and rebranding before the bikes will be redeployed.

Swimming Pool:

In early June we were able to offer a free lifeguarding class to increase our lifeguard staff and open the pools more. We are able to gain 15 more lifeguards from that class however since the opening of the pools we have lost three lifeguards for a total of 12 new staff. This has allowed us to reduce the closures down to one day per week for each pool. Memorial is closed Mondays, Schulenberg is closed Tuesdays and Kaiser is closed Wednesdays. Our swimming lesson program has been extremely successful this summer and having one pool closed on these three days has allowed us to expand swimming lessons.

Playgrounds:

Several small completion items are in progress on the three playgrounds recently installed:

Scholfield Park: path work; asphalt

Forest Park: PIP surfacing in progress; light installation

Pleasant View Park: path work; asphalt

Riverside Park Shelter:

Shelter exterior has been painted. Final trim work will be completed this week.

ADA Study Barrier Corrections

Staff continues on corrections for ADA guidelines. Small correction levels include small plumbing fixes, fixture and grab bar relocations in restrooms, tree path obstructions, adding ADA approved picnic tables, etc.

Routine Operations/Programs:

Mowing Operations

Urban forestry program; Ash tree injections (EAB), stump grinding, tree trimming, removals.

Building and structure maintenance.

Shelter reservations and Special Events;

Equipment maintenance and repair

Restroom Maintenance

Swimming Pools

8B. Riverside Park Testing Update

A memo from the Public Works Director, Eric Lindman, is attached providing an update on the soil testing at Riverside Park.

8C. Tree In Reservoir Park

Wausau Water Works requested permission for the removal of the trees surrounding the water reservoir at 1130 Elm St. These trees, probably placed as screening in the 1950's are now becoming a detriment to the tank. The shading and restricted airflow have caused excessive moisture and mold on the tank which has contributed to the diminishment of the tank coating.

AGENDA SUMMARY

Coating failure has causing spalling of the concrete on the tank. The department anticipates cleaning and recoating the tank but know the life of the coating maintenance project will be considerably extended if the trees are removed.

The City Forester and the Water Operations Superintendent met to look at the trees surrounding the Reservoir. It was determined that the trees have reached close to their maximum life and failure will begin to happen. All of the spruce around the reservoir will be removed and our two departments will work together to remove the trees. Once the work on the reservoir is complete staff will determine location and species for new plants that will not hinder the reservoir as they mature.

8D. 2nd Dog Park Location

Staff has contacted the Wisconsin DOT to determine if the old Menards site would still be a possible option for a 2nd dog park. The DOT requested a drawing and additional information about our vision for improvements and access to the area. They have received this information are now reviewing the idea.

DRAFT

CITY OF WAUSAU – PARK AND RECREATION COMMITTEE MEETING MINUTES

Date/Time: June 7, 2021 at 4:30 p.m. Location: Sylvan Hill Chalet

Members Present: Tom Kilian, Lou Larson, Tom Neal, Pat Peckham (c), Sarah Watson

Others Present: Jamie Polley-Director, other interested parties

1. In accordance with Chapter 19, Wisc. Statutes, notice of this meeting was posted and sent to the Daily Herald in the proper manner. A quorum was present and the meeting was called to order by Chairman Peckham at 4:30pm.

2. Public Comment – none brought forward

3. Approval of Minutes – May 3, 2021 – **Motion** by Neal, second by Watson to approve the Park and Recreation Committee draft May 3, 2021 minutes. Motion **carried** by voice vote, vote reflected as 5-0.

4. Educational Items

A. Park Update - Urban Forestry/Horticulture: Clean up and removals will be ongoing for a couple weeks from recent storm damage. Tree planting will be complete in a few days (delayed from storm work). Stump removal continues in city parks from winter Ash tree removals. Flower baskets are hung (for second time due to recent cold temperatures). Expansion streets will be next when additional hanging brackets are available. Water Systems: Last few fountains and irrigation systems are in cue for seasonal operation. Polley mentioned some ongoing issues with the Kayak Fountain. Playgrounds: Several small completion items are in progress on the three playgrounds recently installed at Scholfield Park, Pleasant View Park and Forest Park. I.e. path work, timbers, and soil work/turf renovation. Polley gave details on the status of each playgrounds progress. Riverside Park Shelter: Shelter exterior is being cleaned and prepared for painting. City Hall Landscaping Project: Soil work and seeding will be completed soon. City Pools: All three city pools are filled and final maintenance work is underway for seasonal use. 400 Block: All sidewalks were sealed this week and turf over seeding/slit seeding will be completed soon. Athletic Park: Final construction and maintenance projects were recently completed for opening day. ADA Study Barrier Corrections: Staff continues on corrections for ADA guidelines. Small correction levels include small plumbing fixes, fixture and grab bar relocations in restrooms, tree path obstructions, adding ADA approved picnic tables, etc. Routine Operations/Programs: Mowing Operations; all routes/crews are fully staffed as of this week. Urban forestry program; Ash tree removal (EAB), stump grinding, tree trimming, removals. Building and structure maintenance, shelter reservations and special events, equipment maintenance and repair, restroom maintenance.

B. Riverside Park Testing Update – Soil samples were taken in May and the City is awaiting the results.

C. City Pool Opening Update – Polley said all three pools opened on June 4th and it was a successful weekend. She discussed the current pool schedules and their open and closed dates. Lifeguard classes are being held and adjustments will be made to the pool schedules as staffing is hired on and trained. At the very least Polley would like to get all of the pools opened every day except for one. If the one closed pool has to rotate between the three pools that would work as long as one is closed and the other two are open for the public. Polley discussed a dumping issue at Memorial Park's dumpster.

D. Dog Park Special Committee Update – 2 Hearts Dog Park had the official Grand Opening on Saturday, June 5th. Polley thanked the members that attended. Committee is hopeful there will be ongoing efforts from the public to keep the park clean. Polley received comments that a couple more waste dispensers may be helpful. She also mentioned that future sodding may occur if needed, she had another inquiry for a bench, and the shelter is scheduled to be delivered in October.

5. Future Agenda Items – Tuck pointing Stewart Park western performance stage wall, second dog park.

6. Next Meeting Date – Meeting was rescheduled to Monday, July 12th, 2021 at 5:30pm in the Council Chambers at City Hall.

7. Adjournment – **Motion** by Watson, second by Larson to adjourn at 5:00pm. Motion **carried** by voice vote, vote reflected as 5-0.

8. Walking Tour of Sylvan Hill Bike Park, Tubing Hill – No action will be taken by Committee during the tour.

Former Operations Management

Operations Superintendent

Horticulture Supervisor

Construction Supervisor

Maintenance Supervisor

Park Manager I

Park Manager II

Park Manager II

City/Park Forester

Storeroom Manager

Current Operations Management

Assistant Director –Operations

Operations Manager

Operations Manager (2017 SC)

Operations Manager

City Park/ Forester

Purchasing Specialist

Former Operations Field Staff

Maintenance Specialists: 9

Senior Maintenance Specialists: 3

Urban Forestry Specialists: 6

Maintenance Technicians: 17

35

Current Operations Field Staff

Maintenance Specialists: 7

Senior Maintenance Specialists: 2

Urban Forestry Specialists: 6

Maintenance Technicians: 13

28

Former Operations Seasonal Staff

15-20

Current Operations Seasonal Staff

90-100

Added Facilities, Programs, Services

City:

Athletic Park Renovations

Barker Stewart Island

Brockmeyer Park

Sports Fields

Jo Jo's Jungle

City Hall Park

Dog Park

Eau Claire River Conservancy

Riverlife

400 Block

Kickbusch Plaza

Lincoln Tot Lot

Anne's Tot Lot

Pool Renovations

Oak Island:

Skateboard Park

Playground

Paff Woods Nature Preserve

River Edge Trail

River Highlands

Sylvan Recreation Area

Two tubing hills; snow making, grooming, maintenance

Cross Country Ski Trails; grooming

Bikes Trails

Westview Terrace

Whitewater Park

Non Park Grounds:

Boulevards:

Water Systems

Irrigation Systems

Fountains: 400 Block, Woodson, River life Concession, River Life Bridge,

Snow Removal Operations

County:

Big Eau Pleine Park

Campgrounds:

Electrical Systems

Water Systems

Firewood Processing

Disc Golf Course; User group

Biking Trails; User group

Horse Trails: User Group

Duane Corbin Shooting Range (Previous Chief Ranger)

600 yard range

45X90 Geographic Marker

Sports Complex OM

Mountain Bay Trail

Marathon Park:

Marathon Junction

Concession Building

Train

Non Park Grounds:

Nine Mile Forest

Cross country Ski Operations

Snowmaking?

Mountain Biking

Snow Shoeing

Winter Fat Tire Biking?

Forest Units; Road and trail work i.e. grading, culverts, mowing, brushing, etc.

Snow removal operations and landscape services:

Courthouse

Library

Social Services

River Drive Buildings

Events

Everywhere!

APPENDIX B

NEW OR EXPANDED POSITION REQUEST

I. GENERAL INFORMATION

Department: Parks, Recreation & Forestry _____ Date: May 31, 2021 _____

Position Requested: Recreation Supervisor B22 _____ FT ☒ PT ☐ FTE 40 %
(If unsure of classification, indicate "To be determined") Number of Positions: 1 _____

Division Position Will Be Assigned To: Recreation _____
(Indicate NA if not applicable)

Projected Start Date of Position: January 1, 2022 _____ Priority Number of This Position: 1 _____
If you are requesting more than one position, prioritize all your requests and indicate the priority number of position.

II. FULL EXPLANATION OF NEED FOR POSITION

A. Is this position request compatible with the County's mission statement?

Yes the position provides opportunities to Marathon County residents to engage in recreation activities enhancing their quality of life. It has been a goal of County Administration to increase the recreation offerings of the County to increase the revenue generated from recreation programs. Currently the summer workload of the Recreation Superintendent (funded 80% City, 20% County) does not allow for that enhancement. The time requirement it takes to operate, manage and staff three aquatic centers, a splash pad, summer playground and tennis program and Marathon Junction does not allow for increased programming. It is proposed to add a Recreation Supervisor that would report to the Superintendent whose main responsibility would be to manage and operate the pools, splash pad and all aquatic programs freeing time for the Recreation Superintendent to focus on enhanced programming. It is also the expectation that this position would increase aquatic programs year round.

B. What is your department's mission statement and how does position support this mission and/or department strategic plan?

Our mission statement is to adaptively manage our park and forest lands for natural resource sustainability while providing healthy recreational opportunities and unique experiences making Marathon County the preferred place to live, work and play. Recreation programming can offer fun and unique recreational experiences. There are very few organizations within the City that offer family recreation. Enhancing these offering through the County and City programming will provide youth, adults and families healthy recreational opportunities.

B. Indicate reasons for asking for position including purpose of position, applicable workload data and trends, etc. **plus attach relevant supporting data**. If more than one position of the same classification is being requested, also justify the number requested.

Our department is called the Wausau/Marathon County Parks, Recreation & Forestry Department. Recreation is a staple of what we do and for as long as we have documented the City/County have only employed ONE full time recreation professional. The current Recreation Superintendent is responsible for three aquatic centers (all rebuilt from basic pools to aquatic centers over the last 6 years), splash pad, playground programs, special events and the tennis program. The pool management alone takes most of this positions time leaving very little time for any other programming. It has been a goal of the County and City to expand recreation offerings to the community however this has not happened to the extent expected due to the time restraints of the single recreation staff.

A Recreation Supervisor would work under the direction of the Recreation Superintendent and would primarily be assigned to aquatics. This position would train and supervise the staff of the three aquatic facilities, splash pad and water aerobics programs. They would also increase the aquatic programming

offered year round. Possibilities of additional year round aquatic programming include fall and winter swimming lessons utilizing the UWSP-Wausau pool or NCHC pool. The Recreation Superintendent would still ultimately oversee the aquatic operations but would gain time to increase recreation programs and special events year round. The department has offered the playground and tennis programming for a long time. This year our department added pickleball programming a few small special programs such as scavenger hunts and Movin with the Mayor. The possibilities to add more are endless. More programming also increases the revenue generated for both the City and the County.

- C. What benefit will the position provide to the County? How does the position improve/enhance customer service and/or address community needs?

This position will benefit the County by increasing program revenue through programming that this position develops and increased programming and events by the Recreation Superintendent. In our experience our community is looking for activities and events to participate in. There is demand for youth, adult, senior and family programming from introductory sports to arts and craft. The programs that we develop will be to meet the needs of the community. We will not offer or continue to offer programs that the community is not interested in.

- D. Indicate any alternatives to creating this position that were considered and why you still chose to request the position?

The alternative will be to continue to operate as we do today. The Recreation Superintendent establishes the programs and balances their time between the demands of the pools and the programs that can be offered effectively. We will continue to hire a student intern to assist the Recreation Superintendent each year and utilize seasonal staff.

- E. What will be the effect if the proposed position is not created?

The department will continue to try to increase programming with the staff and resources available.

- F. What criteria will you use to monitor the effectiveness and performance of the position? (Increasing revenues, improved customer service, decreasing costs, enhancing services, etc?)

The effectiveness of this position will be determined by the number of successful programs offered and increased program revenue. We do understand that programs have to begin somewhere and some may be successful, some may fail and some have to be revamped.

III. SPECIFIC DUTIES OF NEW POSITION

- A. List the specific duties position will perform plus the approximate percentage of time to be spent on each duty.

- Plans, coordinates, supervises, implements, and evaluates recreation programs, classes, and events. 40%
- Interviews, hires, trains, assigns and reviews work, schedules and approves time off for recreation program seasonal employees; acts on problems and concerns; identifies need for additional staff and completes corresponding job descriptions. 25%
- Directs and supervises seasonal recreation program managers. 10%
- Coordinates facility scheduling, setup and services for recreation programs, classes, and events. 5%
- Writes grant proposals and applications. 1%
- Researches future recreation needs and opportunities. 5%
- Develops proposals for modifying existing programs and events and creating new. 5%
- Writes and updates recreation program and employee manuals. 2%
- Investigates costs and purchases materials and supplies for recreation programs, classes, and events. 5%
- Maintains knowledge of current recreational trends, community needs and desires, recreation administration principles and techniques, and safety standards regarding recreation. 2%

- B. Could another County department use the expertise of this position? OR could you use the expertise of another department to meet your needs? Why or why not?

This position will coordinate programs and special events with other department such as Chinese New Year with UW Extension, Hunter Safety Classes with the Sheriff's department, trail tales with the Library, etc. however another department may not specifically need the expertise of this position.

- C. If the work is currently being done by the County, how is it being accomplished (contract basis, temporary help, current employee, etc.)? Why is this arrangement no longer acceptable?

As mentioned in item II B, the current Recreation Superintendent is responsible for three aquatic centers (all rebuilt from basic pools to aquatic centers over the last 6 years), splash pad, playground programs, special events and the tennis program. The pool management alone takes most of this positions time leaving very little time for any other programming. It has been a goal of the County and City to expand recreation offerings to the community however this has not happened to the extent expected due to the time restraints of the single recreation staff.

A Recreation Supervisor would work under the direction of the Recreation Superintendent and would primarily be assigned to aquatics. This position would train and supervise the staff of the three aquatic facilities, splash pad and water aerobics programs. They would also increase the aquatic programming offered year round. Possibilities of additional year round aquatic programming include fall and winter swimming lessons utilizing the UWSP-Wausau pool or NCHC pool. The Recreation Superintendent would still ultimately oversee the aquatic operations but would gain time to increase recreation programs and special events year round. The department has offered the playground and tennis programming for a long time. This year our department added pickleball programming a few small special programs such as scavenger hunts and Movin with the Mayor. The possibilities to add more are endless. More programming also increases the revenue generated for both the City and the County.

The expectation of our department is to increase programming and continue to operate and maintain more and more facilities. The current staffing is not adequate to meet these expectations.

IV. POSITION COSTS AND FUNDING SOURCES

- A. What is the anticipated total cost of this position? (Include salary; benefits; office space, remodeling, furniture, and equipment; travel; and other applicable costs.) \$70,934 total – 60% City, 40% County Please see attached position cost breakdown.

- B. Explain specifically how position will be funded.

Current Funding:

Amount of County tax levy: \$0 % of total costs: 0 %

Amount of any outside funding: \$0 % of total costs: 0 %

Proposed Increase in Funding:

Amount of County tax levy: \$28,374 % of total costs: 40 %

Amount of any outside funding: \$42,561 % of total costs: 60 %

Total Funding if approved:

Amount of County tax levy: \$28,374 % of total costs: 40 %

Amount of any outside funding: \$42,561 % of total costs: 60 %

Source of outside funding: City

Length of outside funding: Annual

Likelihood of funding renewal: Guaranteed as long as the City approves the PRF budget

Would this outside funding be used to offset the levy if not used for this position? No

- B. Will the proposed position allow your department to increase revenues or decrease expenditures beyond the cost of the position? If yes, how?

The proposed position will most likely not increase revenue to decrease expenditures beyond the cost of the position the first few years however over time this position should be able to continue to narrow the gap and increase more and more revenue.

- C. Does the proposed position provide preventive services that will lead to cost avoidance or more extensive services in the future? OR Can the proposed position be justified as an investment with future benefits to the County greater than the cost of the position? If yes, how?

Yes, the ability to increase programming will provide more services to the community and increase revenue. Investing in this position is an investment into the Parks, Recreation & Forestry Department with the potential of covering the cost of the position or a portion of the position.

- D. Can the position costs be offset by eliminating or reducing a lower priority function? If yes, explain.

No

V. COMMITTEE OF JURISDICTION

What is the recommendation of the committee of jurisdiction?

Was presented to Parks and Recreation Commission on Tuesday, June 29. Recommendation was made to move it on to the Environmental Resources Committee on Tuesday, August 3.

NOTE: An updated or new Position Description Questionnaire (PDQ) may be necessary to complete the job evaluation process.

Signature of Supervisor/Manager Completing Request

Date

Jamie Polley
Department Head Signature

6/1/21
Date

APPENDIX B NEW OR EXPANDED POSITION REQUEST

I. GENERAL INFORMATION

Department: Wausau and Marathon County Parks, Recreation and Forestry Department

Date: 5/31/21

Position Requested: Maintenance Technician B21
(If unsure of classification, indicate "To be determined")

FT ☒ PT ☐ FTE 100 %

Number of Positions: 2

Division Position Will Be Assigned To: Operations
(Indicate NA if not applicable)

Projected Start Date of Position: 1/1/22

Priority Number of This Position: 1

If you are requesting more than one position, prioritize all your requests and indicate the priority number of position.

II. FULL EXPLANATION OF NEED FOR POSITION

A. Is this position request compatible with the County's mission statement?

Yes, the County's mission is to be the safest, healthiest and most prosperous County in the state. The PRF Department contributes to the mission through providing high quality parks and recreation programs. The City and the County facilities continue to grow. The City and County are also investing more in the parks by taking care of deferred maintenance items. In addition, the community expects more from our department in terms of service and quality. The department staffing however has not increased to keep up with the increased facilities and higher demands of the community.

B. What is your department's mission statement and how does position support this mission and/or department strategic plan?

MISSION STATEMENT:

Our mission statement is to adaptively manage our park and forest lands for natural resource sustainability while providing healthy recreational opportunities and unique experiences making Marathon County the preferred place to live, work and play.

At current staffing levels the Department cannot adequately manage existing park and forest lands, facilities and outdoor recreation opportunities, much less prepare for the needs of future generations. This position will allow us to enhance our maintenance of our existing lands and facilities which in turn enhances the County's quality of life.

C. Indicate reasons for asking for position including purpose of position, applicable workload data and trends, etc. plus attach relevant supporting data. If more than one position of the same classification is being requested, also justify the number requested.

This position will serve both the City of Wausau park and recreation programs and Marathon County's park and county forest programs. The PRF Department is experiencing significant increases in facilities, programs, and administrative workload:

FACILITIES

- Riverlife Park.
- 71 acre County Park at Brokaw to be developed.
- Athletic Park phase IV enhancement and expanded facilities.

- JoJo's Jungle Playground
- Enhanced playgrounds at Oak Island, Forest Park, Marathon Park, Scholfield Park, 3M Park, Alexander Airport Park.
- Whitewater Park additional seating.
- Sylvan Hill Bike Park enhancements.
- Sunnyvale Park updates
- New River Edge Trail segment near Thomas St
- Vegetation Management of Barker Stewart Island
- Enhanced programming of the 400 Block,
- Increased staff support for Wisconsin Valley Fair

PROGRAMS

The combination of new and enhanced facilities in conjunction with the successful efforts of the Sports Authority, Ironbull, Wausau Events, and the youth sports associations have produced a large growth in sports tourism and special events based out of our facilities. All of these events require significant planning and administration as well as additional facility preparation and maintenance. In the past year (2019) our facilities have hosted the following major state/regional draw competitions:

6 Hockey Tournaments
5 Softball Tournaments
5 Mountain Bike Races
3 Kayak/Canoe Competitions
2 Soccer Tournaments
2 Cross-Country Ski Races
1 Pond Hockey Tournament
1 Snow Bike Race
1 Marathon
1 Triathlon
1 Trail Relay Race
1 Lacrosse Tournament
Hmong Festival
400 Block concerts on the square, farmers Market
Blues Festival, Beer and Bacon Fest, Balloon Rally
Art in the Park
Etc..

In addition we now host multiple special events weekly in our County and City facilities from spring through fall.

MAINTENANCE/MANAGEMENT

The maintenance workload for operations staff has increased significantly with the addition of these facilities and programs. Staff has daily tasks that continually change based on the current demand for services and what parks need attention. Our maintenance staff is regularly reactive to situations vs proactive due to the high demand and limited staffing.

The total FTE for the department has decreased from 44 FTE to 43.75.

D. What benefit will the position provide to the County? How does the position improve/enhance customer service and/or address community needs?

This position will help to distribute the work load among the current staff. One additional maintenance technician will allow staff to address more pressing issues enhancing the quality of our park maintenance ultimately leading to enhanced customer service.

E. Indicate any alternatives to creating this position that were considered and why you still chose to request the position?

We have considered adding seasonal positions to assist with the workload however seasonal employees require closer supervision and constant training. Seasonal employees are also harder to recruit. We determined that adding a maintenance technician position would most effectively address the increased operations and maintenance needs.

F. What will be the effect if the proposed position is not created?

If the proposed position is not approved the Parks, Recreation and Forestry Department will continue to not be able to effectively maintain programs, events, customer service, or facility operation and services much less additional programs, events or facilities that are currently under construction, about to be constructed or are in advanced planning stages. Program and facility capabilities will not be optimized. Consequently, the availability of high quality, easily accessible, affordable outdoor recreation, sports tourism and special events will diminish. Marathon County and the City of Wausau will not maintain its current quality of life and the economic benefits of being a preferred place to live, work, play, and visit will correspondingly diminish.

G. What criteria will you use to monitor the effectiveness and performance of the position. (Increasing revenues, improved customer service, decreasing costs, enhancing services, etc?)

The effectiveness of adding a maintenance technician position will be evidenced in a number of ways:

- Customer satisfaction will increase due to programs and facilities remaining available and delivered at more full service levels.
- Increased revenues from better utilization of existing and new facilities
- Improved organizational culture from additional time to more fully accomplish daily maintenance needs.

III. SPECIFIC DUTIES OF NEW POSITION

A. List the specific duties position will perform plus the approximate percentage of time to be spent on each duty.

- Arena work involves ice maintenance operations including operating an ice resurfacer machine (Zamboni). 15%
- Performs routine park maintenance and custodial work including mowing, flooding ice rinks, painting, collecting and disposing litter, sweeping and mopping park buildings, cleaning restrooms, raking leaves, snow removal from sidewalks and park roadways, and putting up/taking down snow fences. 35%
- Provide exceptional customer service to park and facilities users and special event organizers. 10%
- Interact frequently with the public and persons contracted to use the park by providing services and assistance and enforcing park rules. 5%
- Inspects and prepares facilities and grounds for public and private use. 3%
- Inspects parks and facilities for maintenance needs to maintain good order and condition of facilities and reports problems/concerns to supervisor. 2%
- May operate all types of equipment including tractors, loaders, skid steers, Zamboni, trucks and similar equipment. Equipment may be used inside buildings and sometimes near persons using the park facilities. 15%
- Leads seasonal employees engaged in related work. 15%

B. Could another County department use the expertise of this position? OR could you use the expertise of another department to meet your needs? Why or why not?

The specific knowledges required of this position focuses on the operation and maintenance of park and recreation facilities and the activities and events that occur within them. Many of our facilities are unique and require specialized knowledge, equipment, and materials to operate. Accordingly, no other County Department has these capabilities. Some of the expertise of this position is found at the Highway Department in the area of snow removal. However, it is not feasible for the Highway Department to manage our snow removal as the peak demands for both departments are simultaneous and neither has excess capability.

C. If the work is currently being done by the County, how is it being accomplished (contract basis,

temporary help, current employee, etc.)? Why is this arrangement no longer acceptable?

The types of work this position performs are currently being done internally within the Parks, Recreation and Forestry Department by a range of other employees. However, not all of the work is being accomplished, some of it is being done by positions that could be better utilized on higher level tasks, and there is no capability to absorb the additional workload from recent, current or future program and facility expansion.

IV. POSITION COSTS AND FUNDING SOURCES

- A. What is the anticipated total cost of this position? (Include salary; benefits; office space, remodeling, furniture, and equipment; travel; and other applicable costs.) \$67,028 total – 50% City, 50% County
Please see attached position cost breakdown.

- B. Explain specifically how position will be funded.

Current Funding:

Amount of County tax levy: \$0 % of total costs: 0 %

Amount of any outside funding: \$0 % of total costs: 0 %

Proposed Increase in Funding:

Amount of County tax levy: \$33,514 % of total costs: 50 %

Amount of any outside funding: \$33,514 % of total costs: 50 %

Total Funding if approved:

Amount of County tax levy: \$33,514 % of total costs: 50 %

Amount of any outside funding: \$33,514 % of total costs: 50 %

Source of outside funding: City

Length of outside funding: Annual

Likelihood of funding renewal: Guaranteed as long as the City approves the PRF budget

Would this outside funding be used to offset the levy if not used for this position? No

- C. Will the proposed position allow your department to increase revenues or decrease expenditures beyond the cost of the position? If yes, how?

The position will help the Department increase facility use which in turn will generate limited amounts of additional revenue. The revenues directly received by our Department will not offset the cost of the position. However, the overall community will receive direct economic benefits from retaining and enhancing our quality of life and being a growing outdoor recreation, events and sports tourism destination.

- D. Does the proposed position provide preventive services that will lead to cost avoidance or more extensive services in the future? OR Can the proposed position be justified as an investment with future benefits to the County greater than the cost of the position? If yes, how?

Part of the cost effectiveness of this position is that it will enhance our capability to:

- More effectively complete the work of our existing workforce.
- Accomplish more planned maintenance thereby increasing the lifespan of facilities.
- Increase inspection and monitoring of facilities thereby reducing risk and liability.

- E. Can the position costs be offset by eliminating or reducing a lower priority function? If yes, explain.

Potential costs could be eliminated by reducing services in other areas.

V. COMMITTEE OF JURISDICTION

What is the recommendation of the committee of jurisdiction?

The Marathon County Park Commission will review the proposal on June 29 and the City of Wausau Park and Recreation Committee will review the proposal in July.

NOTE: An updated or new Position Description Questionnaire (PDQ) may be necessary to complete the job evaluation process.

Signature of Supervisor/Manager Completing Request

Date

Jamie Polley

Department Head Signature

6/1/21

Date

APPENDIX B

NEW OR EXPANDED POSITION REQUEST

I. GENERAL INFORMATION

Department: Wausau and Marathon County Parks, Recreation & Forestry Date: July 7, 2021_____

Position Requested: Urban Forestry Specialist_____ FT ☒ PT ☐ FTE 100 %
(If unsure of classification, indicate "To be determined") Number of Positions: _____

Division Position Will Be Assigned To: Operations_____

(Indicate NA if not applicable)

Projected Start Date of Position: January 1, 2022_____ Priority Number of This Position: _____

If you are requesting more than one position, prioritize all your requests and indicate the priority number of position.

II. FULL EXPLANATION OF NEED FOR POSITION

A. Is this position request compatible with the County's mission statement?

Yes, the County's mission is to be the safest, healthiest and most prosperous County in the state. The PRF Department contributes to the mission through providing high quality parks and recreation programs. The City and the County facilities continue to grow. The City and County are also investing more in the parks by taking care of deferred maintenance items. In addition, the community expects more from our department in terms of service and quality. The department staffing however has not increased to keep up with the increased facilities and higher demands of the community.

B. What is your department's mission statement and how does position support this mission and/or department strategic plan?

MISSION STATEMENT:

Our mission statement is to adaptively manage our park and forest lands for natural resource sustainability while providing healthy recreational opportunities and unique experiences making Marathon County the preferred place to live, work and play.

Urban Forestry is a part of our department that focuses mainly on the natural resources of the City. The City has 24,000+ street trees in addition to park trees that have to be maintained for safety. With the detection of Emerald Ash Borer the need to monitor, maintain and address the health of the tree canopy is critical. This position manages the urban forest for healthy growth, insects and disease and general aesthetics.

C. Indicate reasons for asking for position including purpose of position, applicable workload data and trends, etc. **plus attach relevant supporting data.** If more than one position of the same classification is being requested, also justify the number requested.

The purpose of this request is to meet customer needs by achieving public safety. The current and projected future workload is not sustainable by current staff. See attached information.

D. What benefit will the position provide to the County? How does the position improve/enhance customer service and/or address community needs?

The benefit this position provides is the capacity to maintain the level of service provided prior to the recognition of the Emerald Ash Borer in 2020. A community with a similar number of trees to manage is Eau Claire, WI. They have a staff of 6 arborists, whereas we are currently operating with 4.

E. Indicate any alternatives to creating this position that were considered and why you still chose to request the position?

Alternatives include increased use of subcontractors for tree related functions such as; removal, stump removal, tree pruning, and potentially tree planting. The determination to continue with the request is as follows:

- Contracted work still requires oversight. Some work, if contracted is not correctable if done in

- error (such as pruning).
- Full-time staff offers increased versatility in assigned responsibilities. A full time position would also ensure consistency with completion of assigned tasks.

F. What will be the effect if the proposed position is not created?

The effect of not creating this position will be reduced maintenance pruning and reduced response time for both standard requests and storm response.

G. What criteria will you use to monitor the effectiveness and performance of the position. (Increasing revenues, improved customer service, decreasing costs, enhancing services, etc?)

The primary mode to monitor effectiveness of this position is by meeting the industry standard maintenance pruning goals for our tree population. The extra position will enable us to meet ash management goals while still conducting maintenance work to reduce storm damage and increase public safety.

III. SPECIFIC DUTIES OF NEW POSITION

A. List the specific duties position will perform plus the approximate percentage of time to be spent on each duty.

Specific duties are as follows:

- Tree Pruning 60%
- Tree Removal 25%
- Tree Planting 5%
- Stump Grinding 5%
- Other 5%

B. Could another County department use the expertise of this position? OR could you use the expertise of another department to meet your needs? Why or why not?

Other County facilities could use the expertise of this position, however this position is specialized in function and would strictly preform tree related functions. There is not another County department that could provide this service to our knowledge.

C. If the work is currently being done by the County, how is it being accomplished (contract basis, temporary help, current employee, etc.)? Why is this arrangement no longer acceptable?

The work is currently being accomplished through the use of four arborists and contractors. As noted previously in item II-E there are alternatives to this position. Both existing arrangements are acceptable, however when weighing the increased cost to contract work and the objective of prompt service for public safety, we are certain this position is required.

IV. POSITION COSTS AND FUNDING SOURCES

A. What is the anticipated total cost of this position? (Include salary; benefits; office space, remodeling, furniture, and equipment; travel; and other applicable costs.) Total cost: \$67,028 including benefits

B. Explain specifically how position will be funded.

Amount of County tax levy: \$6,702.80 % of total costs: 10%

Amount of any outside funding: \$60,325.20 % of total costs: 90%

Source of outside funding: City

Length of outside funding: Annual

Likelihood of funding renewal:

Would this outside funding be used to offset the levy if not used for this position? No

C. Will the proposed position allow your department to increase revenues or decrease expenditures beyond the cost of the position? If yes, how? No

D. Does the proposed position provide preventive services that will lead to cost avoidance or more extensive

services in the future? OR Can the proposed position be justified as an investment with future benefits to the County greater than the cost of the position? If yes, how?

This position will lead to cost avoidance by way of sustaining maintenance. Trees that are neglected from a maintenance standpoint are more likely to fail in wind events or heavy snow/ice loads. By being equipped with adequate staff to continue maintenance pruning, the cost of removal (sometimes at overtime rate) will be reduced.

E. Can the position costs be offset by eliminating or reducing a lower priority function? If yes, explain.

V. COMMITTEE OF JURISDICTION

What is the recommendation of the committee of jurisdiction?

NOTE: An updated or new Position Description Questionnaire (PDQ) may be necessary to complete the job evaluation process.

Signature of Supervisor/Manager Completing Request

Date

Department Head Signature

Date

Position Justification

The Park Department currently employs 4 arborists and 2 horticulturists, all classified as Urban Forestry Specialists. These six individuals are supervised by the Park Forester.

Speaking strictly for the arborists, the areas of responsibility include:

- 24,686 boulevard trees
- 1,772 City Park Trees (in turf areas)
- 1,178 County Park Trees (only includes trees in turf areas at Bluegill Bay Park, Courthouse, D.C. Everest Park, Marathon Park and Sunnyvale Park).

Annual Removals

- 249 in 2019
- 304 in 2020
- 349 in 2021 as of 6/22/21
 - The increase is attributed to increased ash removal in both boulevards and parks.

Annual Planting

- 337 in 2019
- 381 in 2020
- 215 in Spring 2021, additional in fall

Annual Pruning

- 3100 young trees in 2019, 4000 mature trees in 2019
- 3100 young trees in 2020, 200 mature trees in 2020
- 3100 young trees, minimal mature trees in 2021

Annual Stump Grinding

- 256 in 2019
- 357 in 2020
- 386 as of 6/22/21

There is a stark difference in maintenance pruning beginning to develop. With the reduction of maintenance pruning, more frequent and more severe damage will continue to occur in storm events. There is also a noticeable increase in dead and low branches among our boulevard trees. These issues would normally be addressed through area pruning during dormancy. The increased attention needed with respect to ash, and the overall population of trees to manage, our staff of four do not have the capacity to accomplish all necessary tasks. Note, none of this data includes contracted items.

A RESOLUTION
To Support Environmental Justice

WHEREAS, the City of Wausau Comprehensive Plan 2017 recognizes that both the natural environment and equity are key components of Livability and a community's quality of life; and

WHEREAS, the North Central Wisconsin Regional Planning Commission's Regional Livability Plan 2015 highlights the importance of the natural environment and equity on making the region more livable for all residents, while listing the identification of resources and the provision of environmental remediation support for brownfields and other industrial sites as an objective; and

WHEREAS, the Metro Region Economic Development Assessment 2017 from the North Central Wisconsin Regional Planning Commission with support from the Marathon County Economic Development Corporation (MCDEVCO) includes the improvement of Metro Region Livability as part of the framework for an Economic Development Strategy; and

WHEREAS, as reflected by the East Riverfront Brownfields Area-Wide Plan in relation to the U.S. EPA's Brownfields Area-Wide Planning (AWP) program, the City of Wausau strives to help the community confront local environmental and public health challenges related to brownfields, which benefits underserved or economically disadvantaged areas, among others; and

WHEREAS, in the City of Wausau's application for a U.S. EPA Brownfields Area-Wide Planning Grant (Fiscal Year 2013), the City of Wausau highlighted in detail that the proximity to environmental contamination and brownfields for sensitive populations such as persons of color and low-income persons historically posed potential "Socio-Economic and Health Concerns" within the project area of the application; and

WHEREAS, the City of Wausau is committed to the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies; and

WHEREAS, the City of Wausau seeks to support the delivery of an equitable share of environmental benefits and community assets in all neighborhoods and wards that enhance the quality of life, such as parks and open spaces, trees, natural areas, community gardens, and the riverfront, as well as equal access to the City's environmental and infrastructure investments that support health, well-being and a sense of community; and

WHEREAS, The City of Wausau seeks to foster equity, community engagement, environmental sustainability, community cohesion, and transparent decision-making. The City of Wausau aspires to engage all Wausau residents equally regardless of income, race, ethnicity, language, age, gender, sexual orientation, ability, immigration status, and address for equal access to information about, and opportunities for meaningful involvement in, local decision-making that affects their quality of life.

NOW BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WAUSAU, MARATHON COUNTY, WISCONSIN, THAT:

SECTION 1: For purposes of this Resolution, the following definitions apply:

Environmental Justice (Wausau): As defined by the U.S. Environmental Protection Agency (EPA), Environmental Justice is “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies” and Environmental Justice is achieved when “everyone enjoys the same degree of protection from environmental and health hazards, and equal access to the decision-making process to have a healthy environment in which to live, learn, and work.”

Public Engagement: Public engagement is any process that meaningfully, inclusively, and equally engages residents and stakeholders in taking an action or making a decision and gives full consideration to public input in making that decision.

Equity: Equity, as defined by the 2021 Executive Order On Advancing Racial Equity and Support for Underserved Communities Through the Federal Government, “means the consistent and systematic fair, just, and impartial treatment of all individuals...”

SECTION 2: This Resolution establishes the City of Wausau’s definition for environmental justice and also serves as the foundation for the future development of ordinances to ensure active consideration of environmental justice and meaningful public participation in City policies, practices, procedures, and other decision-making.

SECTION 3: The City of Wausau is committed to meaningful and inclusive public engagement that provides the foundation for making better decisions around environmental justice issues. Through meaningful and inclusive public engagement, decision-makers have more complete information to understand any potential impact a project or program may have on the community, decisions are more implementable and sustainable, decisions are perceived as more legitimate, and decision-makers are better communicators.

SECTION 4: The City of Wausau will incorporate environmental justice into City of Wausau ordinances, codes, policies, and processes, which could include review of

existing codes which will be conducted with appropriate revisions to bolster and improve environmental justice outcomes. This work will be done in consultation with relevant City committees and departments, and community organizations.

SECTION 5: The City of Wausau is committed to developing a policy that specifies clear goals for meaningful public engagement, policies and decision-making processes. These engagements are intended to ensure that decisions with the potential to affect the quality of life for residents and entire neighborhoods in Wausau are supported by public engagement that is pursuant to the City's policy on meaningful, timely, inclusive, accessible public comment, as well as responsiveness to public comment. The public engagement policy shall be developed in consultation with the relevant City departments and committees, along with the involvement and input of community stakeholders.

SECTION 6: The City will develop and maintain an active GIS-based inventory of environmental justice areas in Wausau. Environmental justice areas are geographic regions in which low-income populations and/or people of color face a disproportionately high exposure to environmental challenges and burdens, as statistically defined and demonstrated by EJSCREEN: The EPA's Environmental Justice Screening and Mapping Tool. That inventory will be made public through online mapping platforms. Once completed, this tool will help to identify existing burdens, and needed improvements and investments, that can be considered by City Departments through their planning process.



TO: Public Health & Safety Committee

FROM: Eric Lindman, P.E.
Director of Public Works & Utilities

DATE: June 29, 2021

SUBJECT: Environmental Justice – Proposed Resolution

Staff has reviewed a second draft of a proposed resolution related to Environmental Justice. Per Kevin Fabel, Environmental Engineer, *"I as Environmental Engineer for the City of Wausau for the past 8+ years am aware of zero (0) instances during that time, or any time previous, where minority groups or low income areas have shouldered any additional burden or have been disproportionately affected by environmental consequences as the result of any environmental violations in any of the issues or areas I have been involved with. In other words, I am aware of no Environmental Injustices which would require a new Environmental Justice Policy to correct, repair, or make good on, in the City of Wausau."*

Here are staff comments related to sections of the resolution.

Section 2: This section seems to indicate the City has no establishment of policies/ordinances for public input and engagement. The City has written ordinances and there are also state and federal laws the city follows in regards to public engagement. All citizens have equal access to these public meetings and information. There are currently ordinances in place for public engagement.

Section 3: This section is more about general public engagement and not necessarily related to EJ. Public engagement is only one component of making decisions. There are many other factors that are considered; engineering principles, effects of laws, rules, regulations, private property owner decisions, etc. All information/data need to be considered when making decisions. The City has current policies/ordinances in place which establish public engagement; they range from public hearings to public information meetings and public committee meetings.

Section 4: Environmental Justice is a federal policy used by the USEPA in dealing with violators of Environmental Law and preventing violations of Environmental Law. The USEPA does this by issuing permits through the Clean Water Act and Clean Air Act. EJ would not necessarily apply to most ordinances or codes, the resolution seems to indicate a request for more public engagement. The City already has public engagement requirements and in other cases additional public engagement and environmental requirements is required by outside funding received.

Section 5: The City currently has requirements for public engagement. As is the current process, ordinance changes are brought through committees and public meetings. Public Hearings and notices to residents are also required for other processes.

Section 6: Staff has not worked with EJScreen. GIS has the City LMI areas mapped and has census data and they are available. Our mapped LMI areas are used to help determine areas of the City we can use various federal funding. For example, the CDBG funding used for infrastructure is used in LMI areas. These funds require Environmental Review and other public engagement for the projects as well as public meetings to approve the use of these funds. Other federal infrastructure funding we receive requires environmental reviews and public engagement meetings throughout the process.

General comments:

It would be helpful to understand from the governing body where their priorities lie, what challenges the council feels need to be addressed, what needs to be improved and what is the overall objective of this type of resolution. None of these items are outlined in the resolution as written. One option that may be more beneficial and provide a more meaningful discussion would be for staff to outline our current public engagement policies and requirements for the council's review and discuss requested changes and potential implications/benefits. If the council wants to establish policies/procedures that ensure we recognize EJ then this may be a place a start, this resolution does not seem to be a good start or beneficial to establishing good policy and staff direction moving forward.



Office of the City Attorney

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Anne L. Jacobson
City Attorney

Tara G. Alfonso
Assistant City Attorney

Nathan Miller
Assistant City Attorney

To: Public Health & Safety Committee
From: Tara G. Alfonso, Asst. City Attorney 
Date: June 24, 2021
Re: Comments on Proposed Environmental Justice Resolution

- On February 19, 2021, the Liberation and Freedom Committee ("L/F Committee") held a joint meeting with the Sustainability, Energy and Environment Committee ("SEE Committee") to discuss a draft resolution presented for consideration by Alderperson Tom Kilian ("Resolution Draft I"). A quorum of members were present sufficient for action by the L/F Committee but a quorum of members were not present to enable action by the SEE Committee. Alderperson Kilian provided an overview of the draft resolution titled "To Support Environmental Justice." At that time a motion was made and approved by the L/F Committee to seek to have the draft resolution considered by the Public Health & Safety Committee ("PH&S Committee"). A later meeting was scheduled for the SEE Committee to consider the resolution at a time a full quorum of its members could be obtained. This meeting was later scheduled for February 24, 2021.
- The general understanding is that Resolution Draft I was one which was substantially identical to one adopted September 14, 2020, by the City of Evanston, Illinois, pop. 74,587 (2019 U.S. Census), a city located just north of the City of Chicago, Illinois.
- City Attorney Anne Jacobson, who had listened to the L/F Committee meetings of February 19, and March 8, 2021, assigned this writer to review this resolution prior to consideration at/by the Public Health & Safety Committee ("PH&S Committee") anticipating that committee members would expect a response to a number of items which mentioned the City Attorney's Office, although the office had not been contacted to discuss or review this or other items on the agendas.
- This writer reviewed the Resolution Draft I and provided written comments on February 23, 2021, via email to Alder Lisa Rasmussen (PH&S Chair), Alder Tom Kilian and also to Blake Opal-Wahoske, L/F Committee Chair. A "cc" was provided to Mayor Rosenberg. This writer was also requested to attend the February 24, 2021 SEE Committee meeting by Alder Kilian through Mayor Rosenberg.
- At the SEE Committee meeting, this writer expressed legal concerns that Resolution Draft I set forth a number of statements that lent themselves to an interpretation, or seemed to express the viewpoint, that the City had allegedly made distinctions among its citizens based upon potentially impermissible legal and constitutional considerations. These statements however, were untested, and the accuracy or inaccuracy of these statements was not established: they could be true or untrue, provable or unprovable, in whole or in part. The proposed resolution then, based upon the untested factual

allegations proceeded to somewhat incautiously set forth conclusory statements, similarly untested that could lead to legal consequences.¹

- Other issues raised concerning the Resolution Draft I included the definition in the draft of the term “environmental justice” and the lack of definition of the term “environmental assets.” Additional issues related to matters such as whether the Resolution Draft I was to serve as the City’s actual written policy, or whether a policy was to be developed moving forward and who would develop or recommend that policy and the absence of data based evidence supporting certain statements made in the resolution were also noted.
- At its meeting on February 24, 2021, the SEE Committee approved a motion sending the resolution back to the L/F Committee for editing.
- At its meeting on March 8, 2021, the L/F Committee added a definition of “environmental justice” that Alder Kilian explained was obtained from a U.S. Environmental Protection Agency document/website. A motion was made and approved to ‘direct city staff in the Attorney’s Office review the resolution with this definition.’²
- A further motion was made and approved by the L/F committee at the March 8, 2021 meeting to “direct city staff and attorney’s office to review and re-draft/edit this resolution.”
- Copies of Minutes from relevant L/F Committee and SEE Committee meetings are attached.
- On March 7, 2021, Alder Kilian forwarded this writer a revised resolution for review (“Resolution Draft II”) along with links to documents referenced in the re-drafted resolution.
- On May 7, 2021, this writer provided comments to Alders Kilian and Rasmussen and observed that Resolution Draft II removed the statements which lent themselves to an interpretation, or seemed to express the viewpoint, that the City had allegedly made distinctions among its citizens based upon potentially impermissible legal and constitutional considerations. Additional legal comments were set forth on a copy of the draft resolution (a copy of which is included with this memorandum).

¹ Examples included:

Whereas, for decades, working class neighborhoods and people of color in the City of Wausau have disproportionately experienced environmental injustice...

...it is necessary to recognize, and acknowledge its own history of environmental injustice, to recognize the disproportionate and negative impacts of industrial, municipal, and commercial pollution in certain Wausau neighborhoods which created an unequal distribution of environmental assets, environmental hazards and health risk...

²A definition of “Environmental Justice” as set forth in Resolution Draft II:

...the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies

is set forth at various locations on the U.S. Environmental Protection Agency website. See e.g., <https://www.epa.gov/environmentaljustice> and <https://www.epa.gov/environmentaljustice/learn-about-environmental-justice>

- The following matters are observed about Resolution Draft II:
 - Resolution Draft II contains several references to the term “equity” or “equitable.”³ Resolution Draft II includes a definition of equity taken from President Biden’s January 20, 2021 Executive Order on Advancing Racial Equity and Support for Underserved Communities Through the Federal Government (“Executive Order”). While Resolution Draft II recites a portion of the Executive Order definition, the use of the ellipsis in the quote raises the question of whether just the quoted portion is intended as the proposed definition of equity, or whether the intention is to adopt the entire Executive Order definition. Resolution Draft II should be clarified for the purposes of determining whether the entire definition is proposed to be adopted or just the actual portion set forth in the resolution.

The full definition in the Executive Order is (the portion set forth in Resolution Draft II is that portion indicated in italics):

“The term “equity” *means the consistent and systematic fair, just, and partial treatment of all individuals*, including individuals who belong to underserved communities that have been denied such treatment, such as Black, Latino, and Indigenous and Native American persons, Asian Americans and Pacific Islanders and other persons of color; members of religious minorities; lesbian, gay, bisexual, transgender, and queer (LGBTQ+) persons; persons with disabilities; persons who live in rural areas; persons otherwise adversely affected by persistent poverty or inequality.

- As a document proposed as the foundation for the future development of ordinances and direction for the City to incorporate environmental justice into City of Wausau ordinances, codes, policies, and processes, the resolution could benefit from additional guidance to future Council and current staff as far as actual implementation. For example, what are the initial priorities for focus and action or when and how will it be determined the City is achieving steps or goals in the direction of delivery of equitable share of environmental assets and equal access to the City’s environmental and infrastructure investments?
- Similarly, the resolution would direct the City to develop a policy specifying clear goals for meaningful public engagement, policies and decision-making process. The resolution could benefit from additional guidance as to what is meant to be achieved beyond existing state law requirements of Open Meetings laws or existing state laws that require public hearings.
- An alternate approach that might provide direction concerning the above could be adoption of a resolution that first directs or requests City staff to develop an environmental policy for Council consideration/approval. For example, is achieving environmental justice one that seeks mitigation opportunities with

³ For example:

“The City of Wausau seeks to foster equity, community engagement, environmental sustainability, community cohesion, and transparent decision-making.”

respect to current existing facilities or future projects or both? Should it examine opportunities to relocate current facilities or to examine alternatives for relocation of a planned or proposed project?

A RESOLUTION
To Support Environmental Justice

WHEREAS, the City of Wausau Comprehensive Plan 2017 recognizes that both the natural environment and equity are key components of Livability and a community's quality of life; and

WHEREAS, the North Central Wisconsin Regional Planning Commission's Regional Livability Plan 2015 highlights the importance of the natural environment and equity on making the region more livable for all residents, while listing the identification of resources and the provision of environmental remediation support for brownfields and other industrial sites as an objective; and

WHEREAS, the Metro Region Economic Development Assessment 2017 from the North Central Wisconsin Regional Planning Commission with support from the Marathon County Economic Development Corporation (MCDEVCO) includes the improvement of Metro Region Livability as part of the framework for an Economic Development Strategy; and

WHEREAS, as reflected by the East Riverfront Brownfields Area-Wide Plan in relation to the U.S. EPA's Brownfields Area-Wide Planning (AWP) program, the City of Wausau strives to help the community confront local environmental and public health challenges related to brownfields, which benefits underserved or economically disadvantaged areas, among others; and

WHEREAS, in the City of Wausau's application for a U.S. EPA Brownfields Area-Wide Planning Grant (Fiscal Year 2013), the City of Wausau highlighted in detail that the proximity to environmental contamination and brownfields for sensitive populations such as persons of color and low-income persons historically posed potential "Socio-Economic and Health Concerns" within the project area of the application; and

WHEREAS, the City of Wausau is committed to the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies; and

WHEREAS, the City of Wausau seeks to support the delivery of an equitable share of environmental benefits and community assets in all neighborhoods and wards that enhance the quality of life, such as parks and open spaces, trees, natural areas, community gardens, and the riverfront, as well as equal access to the City's environmental and infrastructure investments that support health, well-being and a sense of community; and

Commented [TA1]: The Comprehensive Plan, which is 130 pages, states on p. 26 "Livability is often defined as the sum of the factors that add up to a community's quality of life—including the built and natural environments, economic prosperity, social stability and equity, educational opportunity, and cultural, entertainment, and recreation possibilities." That does not appear equivalent to this statement that the Comprehensive Plan itself recognizes it.

Commented [TA2]: This document is 63 pages. Page 8 recognizes "Multiple federal agencies, non-profit organizations, and professional associations have developed different definitions of livability." And then quotes the following as one of the "Representative Definitions of Livability:" "PARTNERS FOR LIVABLE COMMUNITIES Livability is the sum of the factors that add up to a community's quality of life— including the built and natural environments, economic prosperity, social stability and equity, educational opportunity, and cultural, entertainment, and recreation possibilities." That does not appear equivalent to the instant statement.

Commented [TA3]: While this 130 page document includes at p. 83 a "framework and "some potential tasks" one of which provides: "Improve Metro Region Livability • Increase Community Quality of Life to Attract People • Develop Needed Infrastructure for Business to Prosper • Encourage Needed Housing Options for all segments of the population" there is no definition of what is meant by "livability."

Commented [TA4]: This 85 page document provided a plan for the East Riverfront Brownfields Area. Page 9 states: "The U.S. EPA's Brownfields Area-Wide Planning (AWP) program is designed to help communities confront local environmental and public health challenges related to brownfields and benefit underserved or economically disadvantaged communities." Additionally on the same page the document states: "Through a brownfields area-wide planning approach, the community identifies a specific project area that is affected by one or multiple brownfields, then works with residents and other stakeholders to develop reuse plans for catalyst, high priority brownfield sites and their surroundings." It appears these statements may be broader than the statements in the document.

WHEREAS, The City of Wausau seeks to foster equity, community engagement, environmental sustainability, community cohesion, and transparent decision-making. The City of Wausau aspires to engage all Wausau residents equally regardless of income, race, ethnicity, language, age, gender, sexual orientation, ability, immigration status, and address for equal access to information about, and opportunities for meaningful involvement in, local decision-making that affects their quality of life.

NOW BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WAUSAU, MARATHON COUNTY, WISCONSIN, THAT:

SECTION 1: For purposes of this Resolution, the following definitions apply:

Environmental Justice (Wausau): As defined by the U.S. Environmental Protection Agency (EPA), Environmental Justice is “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies” and Environmental Justice is achieved when “everyone enjoys the same degree of protection from environmental and health hazards, and equal access to the decision-making process to have a healthy environment in which to live, learn, and work.”

Commented [TA5]: At some point it might be good to pinpoint the citation for this document more. Can be done after committee consideration.

Public Engagement: Public engagement is any process that meaningfully, inclusively, and equally engages residents and stakeholders in taking an action or making a decision and gives full consideration to public input in making that decision.

Equity: Equity, as defined by the 2021 Executive Order On Advancing Racial Equity and Support for Underserved Communities Through the Federal Government, “means the consistent and systematic fair, just, and impartial treatment of all individuals...”

Commented [TA6]: At some point it might be good to pinpoint the citation for this document more. Can be done after committee consideration.

SECTION 2: This Resolution establishes the City of Wausau’s definition for environmental justice and also serves as the foundation for the future development of ordinances to ensure active consideration of environmental justice and meaningful public participation in City policies, practices, procedures, and other decision-making.

SECTION 3: The City of Wausau is committed to meaningful and inclusive public engagement that provides the foundation for making better decisions around environmental justice issues. Through meaningful and inclusive public engagement, decision-makers have more complete information to understand any potential impact a project or program may have on the community, decisions are more implementable and sustainable, decisions are perceived as more legitimate, and decision-makers are better communicators.

SECTION 4: The City of Wausau will incorporate environmental justice into City of Wausau ordinances, codes, policies, and processes, which could include review of

Commented [TA7]: Given the broad spectrum of environmental justice considerations, I would urge adding a modifier such as “will strive to” or “will seek to” and “as appropriate.” For example, the Presidential Executive Order 12898 states “[t]o the greatest extent practicable ...” and “make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations in the United States...”

existing codes which will be conducted with appropriate revisions to bolster and improve environmental justice outcomes. This work will be done in consultation with relevant City committees and departments, and community organizations.

SECTION 5: The City of Wausau is committed to developing a policy that specifies clear goals for meaningful public engagement, policies and decision-making processes. These engagements are intended to ensure that decisions with the potential to affect the quality of life for residents and entire neighborhoods in Wausau are supported by public engagement that is pursuant to the City's policy on meaningful, timely, inclusive, accessible public comment, as well as responsiveness to public comment. The public engagement policy shall be developed in consultation with the relevant City departments and committees, along with the involvement and input of community stakeholders.

SECTION 6: The City will develop and maintain an active GIS-based inventory of environmental justice areas in Wausau. Environmental justice areas are geographic regions in which low-income populations and/or people of color face a disproportionately high exposure to environmental challenges and burdens, as statistically defined and demonstrated by EJSCREEN: The EPA's Environmental Justice Screening and Mapping Tool. That inventory will be made public through online mapping platforms. Once completed, this tool will help to identify existing burdens, and needed improvements and investments, that can be considered by City Departments through their planning process.

Table 1
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRTS# 02-37-584785

Collected By-->						CWE, Inc.											
Date-->						6/13/2006	6/13/2006	6/13/2006	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008
Sample-->						Culv. In.	Culv. Out	122E	1003 Emt	130 Riv	141 Riv	120 Riv	117 Riv 1	Fern	117 Riv 2	Oak	Weston
Sample Depth--(Inches)-->						4-6 ²	4-6 ²	4-6 ²	8-10	4-6	6-8	4-6	4-6	4-6	4-6	4-6	4-6
Percent Moisture (%)-->						-	-	-	-	-	-	-	-	-	-	-	-
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL												
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	2.1	<2.0	<0.99	<1	<1.8	<1	<1	<1	<1	<1	<1	<1
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	15	11	<4.9	<5	<5	<5	<5	5.1	<5	5.6	<5	<5
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	48	23	6.3	<5	<5	<5	<5	12	<5	15	<5	<5
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	140	83	17	15	6.0	<5	<5	41	5.6	44	<5	<5
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	60	36	11	6.8	5.5	<5	<5	25	<5	27	<5	<5
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	2,400	1,400	270	260	95	87	120	1,100	170	1,100	30	<5
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	17,000	9,300	1,600	3,000	700	630	830	7,600	1,200	8,200	270	24
Total TCDD	--	ng/kg	--	--	--	10	14	6.7	7.9	<1.8	3.3	5.7	15	3.5	22	<1	<1
Total PeCDD	--	ng/kg	--	--	--	84	71	<4.9	<5	<5	<5	<5	40	<5	48	<5	<5
Total HxCDD	--	ng/kg	--	--	--	780	570	110	85	58	25	34	310	34	360	<5	<5
Total HpCDD	--	ng/kg	--	--	--	4,300	2,800	460	500	190	170	230	2,000	300	2,000	58	<5
Furan Congeners																	
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	6.7	7.3	1.7 [†]	2.0	<3.9	<1	<1	3.5	1.4	3.7	<1	<1
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	13	8.7	<4.9	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	45	80	5.7	76	<5	<5	<5	16	<5	16	<5	<5
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	32	35	7.3	24	<5	<5	<5	37	<5	12	<5	<5
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	34	33	5.4	26	<5	<5	<5	19	5.9	17	<5	<5
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	59	75	9.0	100	<5	<5	<5	29	<5	23	<5	<5
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	14	11	<4.9	6.4	<5	<5	<5	<5	<5	5.0	<5	<5
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	550	480	94	160	43	27	42	350	83	350	19	<5
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	40	31	8.5	13	<5	<5	<5	20	<5	20	<5	<5
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	950	710	130	170	49	36	53	520	170	550	34	<5
Total TCDF	--	ng/kg	--	--	--	110	190	43	140	4.8	18	24	110	16	110	12	5.6
Total PeCDF	--	ng/kg	--	--	--	550	880	69	880	49	28	33	260	12	250	45	<5
Total HxCDF	--	ng/kg	--	--	--	990	1,200	150	1,600	64	40	52	580	60	560	27	<5
Total HpCDF	--	ng/kg	--	--	--	1,400	710	250	540	87	51	78	870	190	850	38	<5
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	106	88	12	46	2.8	1.3	1.9	44	4.2	42	0.58	0.0072

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet
This site is assessed as Non-Industrial
RCL = Residual Contaminant Level
DC = Direct Contact
ng/kg = Parts Per Trillion (ppt)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
-- = No Standard/Not Applicable
TEQ = Toxicity Equivalent Calculations

¹ = TEQ values calculated using the U.S. EPA 2007 values.

² = Depth is approximate. CWE letter notes sample collection from base of A horizon, generally 4 to 6 inches below land surface.

Laboratory Qualifiers and Notes:

[†] = Estimated maximum concentration

TCDD: Tetrachlorodibenzo-p-dioxin
PeCDD: Pentachlorodibenzo-p-dioxin
HxCDD: Hexachlorodibenzo-p-dioxin
HPCDD: Heptachlorodibenzo-p-dioxin
OCDD: Octachlorodibenzo-p-dioxin
TCDF: Tetrachlorodibenzofuran
PeCDF: Pentachlorodibenzofuran
HxCDF: Hexachlorodibenzofuran
HPCDF: Heptachlorodibenzofuran
OCDF: Octachlorodibenzofuran

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Industrial Not-To-Exceed DC RCL

Table 2
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						Sand Creek Consulting (SCC)				TRC				SCC		REI	SCC	REI
Date-->						1/9/2018	1/9/2018	1/9/2018	1/9/2018	8/14/2019	8/14/2019	8/14/2019	8/14/2019	11/5/2019	11/5/2019	9/14/2020	11/5/2019	9/14/2020
Sample-->						B-101	B-102	B-103	B-104	N4-1	N4-2	N4-3	N7-1	RP-101	RP-102	RP-102	RP-103	RP-103
Sample Depth--(Inches)-->						8	8	8	8	0-6	0-6	0-6	0-6	10	8	10-12	10	12-14
Percent Moisture (%)-->						12.0	15.1	16.8	9.9	8.7	12.0	8.9	8.2	26.7	24.6	9.9	22.6	17.7
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL													
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	<0.28	<0.41	<0.23	<0.23	0.80 ^J	0.85 ^J	1.0	0.26 ^J	<2.1 ^D	<0.27	<0.28	<2.5	<0.36
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	2.3 ^J	0.74 ^{I,J,EMPC}	0.48 ^{I,J,EMPC}	0.56 ^J	2.5 ^J	5.2	5.9	0.91 ^J	<1.5 ^D	1.9 ^J	0.44 ^{I,J,EMPC}	<0.55	<0.59
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	3.1 ^J	1.1 ^J	0.55 ^{I,J,EMPC}	0.69 ^J	6.3	7.8 ^{J,DN2}	9.0 ^{J,DN2}	2.2 ^J	<2.9 ^D	4.8 ^J	1.1 ^{I,J,EMPC}	1.4 ^J	<1.2
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	15	4.2 ^J	2.2 ^J	3.6 ^J	24	39 ^{DN2}	44 ^{DN2}	6.1	6.0 ^{J,D}	21	5.8	4.7	<1.4
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	7.6	2.4 ^J	1.4 ^J	1.9 ^J	12	15 ^{J,DN2}	15 ^{J,DN2}	3.4 ^J	3.4 ^{J,D}	8.9	3.0 ^J	2.0 ^{I,J,EMPC}	<1.1
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	290	85	50	81	530	820 ^{DN2}	930 ^{DN2}	150	95 ^D	380	110	77	9.4
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	2,000	570	380	650	5,100	7,300 ^{DN2}	9,200 ^{DN2}	1,300	610 ^{I,J,D}	3,000	900	520	63
Total TCDD	--	ng/kg	--	--	--	10	2.5 ^B	1.7 ^{B,J}	1.1 ^{B,J}	11	18	12	21	<2.1 ^D	2.0	1.1	4.7	0.40 ^J
Total PeCDD	--	ng/kg	--	--	--	23	7.1	2.6	3.3 ^J	22	25	33	50	<1.5 ^D	9.6	2.2 ^J	7.2	<0.59
Total HxCDD	--	ng/kg	--	--	--	120	39	19	24	170	260 ^{DN2}	310 ^{DN2}	7.6	45 ^D	120	40	35	<1.1
Total HpCDD	--	ng/kg	--	--	--	560	160	99	150	1,000	1,600 ^{DN2}	1,900 ^{DN2}	330	180 ^D	710	210	140	9.4
Furan Congeners																		
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	2.9 ^V	0.87 ^J	<0.46	<0.26	2.1 ^V	4.4 ^C	2.4 ^V	0.55 ^{I,J,EMPC}	<2.4 ^D	1.4 ^C	<0.61	1.9 ^V	<0.44
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	2.0 ^J	0.70 ^J	<0.52	0.42 ^J	2.1 ^J	270 ^{P,EMPC}	3.4 ^J	0.69 ^J	<1.5 ^D	1.8 ^J	<0.46	<0.29	<0.73
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	9.8	2.0 ^J	1.1 ^J	1.2 ^J	11	14	61	4.1 ^J	<1.7 ^D	14	5.3 ^{I,J,EMPC}	12	<0.44
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	5.8	2.0 ^{I,J,EMPC}	1.3 ^J	1.5 ^J	8.2	16 ^{J,DN2}	75 ^{P,DN2,EMPC}	3.6 ^{P,J,EMPC}	4.8 ^{J,D}	6.3	<0.73	2.1 ^J	<1.3
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	6.7	1.8 ^J	0.99 ^J	1.2 ^J	8.0	20 ^{J,DN2}	28 ^{P,DN2,EMPC}	2.7 ^J	3.8 ^{J,D}	14 ^{P,EMPC}	11 ^{P,EMPC}	6.2 ^{P,EMPC}	<1.2
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	11 ^{P,EMPC}	2.7 ^J	1.2 ^J	1.6 ^J	6.5	16 ^{J,DN2}	30 ^{DN2}	2.4 ^J	3.9 ^{J,D}	6.2	7.7	5.2	<1.3
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	1.3 ^J	0.36 ^J	<0.12	<0.20	3.0 ^J	6.7 ^{J,DN2}	6.1 ^{J,DN2}	0.8 ^J	2.0 ^{J,D,EMPC}	2.9 ^J	<1.1	1.5 ^{I,J,EMPC}	<1.2
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	120	30	17	26	150	250 ^{DN2}	380 ^{DN2}	46	37 ^D	99	40	45	3.2 ^J
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	4.0 ^J	0.96 ^{I,J,EMPC}	0.81 ^J	1.0 ^J	9.4	14 ^{J,DN2}	20 ^{J,DN2}	2.3 ^J	2.3 ^{I,J,D,EMPC}	6.3	2.4 ^{I,J,EMPC}	2.4 ^J	<1.7
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	190	36	19	42	320	490 ^{DN2}	620 ^{DN2}	71	49 ^{I,J,D,EMPC}	170	56	68	6.2 ^J
Total TCDF	--	ng/kg	--	--	--	69	23	7.9	6.6	58	99	140 ^E	21	<2.4 ^D	41	14	35	<0.44
Total PeCDF	--	ng/kg	--	--	--	120	36	0.38	18	180	480	760	50	130 ^D	260	120	190	2.6 ^J
Total HxCDF	--	ng/kg	--	--	--	150	37	24	27	200	430 ^{DN2}	1,200 ^{DN2}	87	110 ^D	280	120	210	<1.2
Total HpCDF	--	ng/kg	--	--	--	140	46	34	59	380	610 ^{DN2}	1,100 ^{DN2}	100	91 ^D	250	90	110	3.2 ^J
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	15	4.2	2.4	3.3	22	44	62	7.0	3.9	19	6.7	7.5	0.15

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet
This site is assessed as Non-Industrial
RCL = Residual Contaminant Level
DC = Direct Contact
ng/kg = Parts Per Trillion (ppt)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
- - = No Standard/Not Applicable
TEQ = Toxicity Equivalent Calculations
¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin
PeCDD: Pentachlorodibenzo-p-dioxin
HxCDD: Hexachlorodibenzo-p-dioxin
HpCDD: Heptachlorodibenzo-p-dioxin
OCDD: Octachlorodibenzo-p-dioxin
TCDF: Tetrachlorodibenzofuran
PeCDF: Pentachlorodibenzofuran
HxCDF: Hexachlorodibenzofuran
HpCDF: Heptachlorodibenzofuran
OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value
EMPC = Estimated Maximum Possible Concentration
^P = PCDE Interference
^I = Interference Present
^V = Results verified by confirmation analysis
^C = Results obtained from confirmation analysis
^D = Results obtained from analysis of diluted sample
^{DN2} = Results obtained from diluted sample
^E = Exceeds calibration Range
^B = Less than 10x higher than method blank level
Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Industrial Not-To-Exceed DC RCL

Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Railroad Corridor
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						Arcadis						
Date-->						9/26/2020	9/26/2020	9/26/2020	9/26/2020	9/26/2020	9/30/2020	9/30/2020
Sample-->						SB-01 (0-4)	SB-01 (28-31)	Dup-01	SB-03 (0-4)	SB-03 (24-27.5)	SB-05 (0-4)	SB-05 (29-31.5)
Sample Depth--(Inches)-->						0-4	28-31	28-31	0-4	24-27.5	0-4	29-31.5
Percent Moisture (%)-->												
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL							
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	<0.21	<0.15	<0.15	<0.18	<0.13	0.35 ^{J,EMPC}	<0.038
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	<0.15	<0.0097	<0.11	<0.14	<0.10	0.99 ^{J,EMPC}	<0.047
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	0.85 ^{J,B}	0.27 ^{J,B}	0.29 ^{J,B,EMPC}	0.46 ^{J,B}	<0.033	2.7 ^J	0.20 ^{J,EMPC}
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	1.4 ^J	<0.034	0.18 ^{J,EMPC}	1.9 ^{J,B}	<0.042	9.3	<0.048
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	0.91 ^{J,B}	<0.028	<0.030	0.87 ^{J,B}	0.082 ^{J,B}	5.2 ^J	<0.044
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	21 ^B	0.46 ^{J,B}	0.95 ^{J,B,EMPC}	67 ^B	3.5 ^{J,B}	230 ^B	0.11 ^{J,B}
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	130 ^B	2.7 ^{J,B}	6.7 ^{J,B,EMPC}	850 ^B	41 ^B	1,800 ^B	1.3 ^{J,B}
Total TCDD	--	ng/kg	--	--	--	2.2	<0.15	<0.15	<0.18	<0.13	13 ^{EMPC}	<0.038
Total PeCDD	--	ng/kg	--	--	--	<0.26	<0.0097	<0.11	<0.14	<0.10	21 ^{EMPC}	<0.047
Total HxCDD	--	ng/kg	--	--	--	7.2 ^B	0.27 ^{J,B}	0.46 ^{J,B,EMPC}	12 ^{B,EMPC}	0.43 ^{J,B,EMPC}	68	0.20 ^{J,EMPC}
Total HpCDD	--	ng/kg	--	--	--	40 ^B	0.98 ^{J,B}	2.1 ^{J,B,EMPC}	360 ^B	21 ^B	560 ^B	0.28 ^{J,B,EMPC}
Furan Congeners												
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	0.6 ^J	<0.071	<0.084	<0.11	<0.063	0.78 ^{J,B}	0.066 ^{J,B}
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	<0.18	<0.049	<0.060	<0.094	<0.050	<0.58	0.072 ^{J,EMPC}
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	0.52 ^{J,EMPC}	<0.053	<0.071	<0.10	<0.059	1.6 ^J	<0.038
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	0.85 ^J	<0.041	0.2 ^J	0.32 ^{J,EMPC}	<0.055	4.4 ^J	<0.070
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	0.89 ^J	<0.036	0.23 ^{J,EMPC}	0.33 ^J	<0.049	3.7 ^J	<0.062
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	0.82 ^{J,EMPC}	<0.030	0.20 ^J	0.33 ^J	<0.041	3.0 ^J	<0.037
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	0.44 ^J	<0.028	0.29 ^J	<0.13	<0.042	<0.41	0.049 ^J
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	6.5 ^B	0.18 ^{J,B,EMPC}	0.43 ^{J,B}	8.2 ^B	0.39 ^{J,B,EMPC}	69 ^B	0.18 ^{J,B,EMPC}
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	0.71 ^{J,B,EMPC}	<0.022	0.21 ^{J,B,EMPC}	0.66 ^{J,B}	<0.030	3.1 ^J	<0.035
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	13 ^B	0.79 ^{J,B}	1.1 ^{J,B}	40 ^B	1.8 ^{J,B,EMPC}	140 ^B	0.52 ^{J,B,EMPC}
Total TCDF	--	ng/kg	--	--	--	5.3 ^{EMPC}	<0.071	<0.084	<0.11	<0.068	23 ^{EMPC}	0.11 ^{J,B,EMPC}
Total PeCDF	--	ng/kg	--	--	--	17 ^{EMPC}	<0.053	<0.21	1.0 ^{J,EMPC}	<0.17	69	0.16 ^{J,EMPC}
Total HxCDF	--	ng/kg	--	--	--	16 ^{EMPC}	<0.041	0.91 ^{J,EMPC}	7.9 ^{EMPC}	0.21 ^{J,EMPC}	96	<0.051
Total HpCDF	--	ng/kg	--	--	--	17 ^{B,EMPC}	0.32 ^{J,B,EMPC}	0.98 ^{J,B,EMPC}	31 ^B	1.3 ^{J,B,EMPC}	180 ^B	0.18 ^{J,B,EMPC}
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	1.2	0.034	0.2	1.4	0.060	8.3	0.037

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet
This site is assessed as Non-Industrial
RCL = Residual Contaminant Level
DC = Direct Contact
ng/kg = Parts Per Trillion (ppt)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
- - = No Standard/Not Applicable
TEQ = Toxicity Equivalent Calculations
¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin
PeCDD: Pentachlorodibenzo-p-dioxin
HxCDD: Hexachlorodibenzo-p-dioxin
HPCDD: Heptachlorodibenzo-p-dioxin
OCDD: Octachlorodibenzo-p-dioxin
TCDF: Tetrachlorodibenzofuran
PeCDF: Pentachlorodibenzofuran
HxCDF: Hexachlorodibenzofuran
HPCDF: Heptachlorodibenzofuran
OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value
^{EMPC} = Estimated Maximum Possible Concentration
^B = Compound was found in the blank and sample.
² = Lab report containd two (2) separate identical results
³ = Lab report containd two (2) separate results with one result = 0.0050 mg/kg and the seond = 0.0052 mg/kg.
Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

Table 4
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Railroad Corridor
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						REI Engineering, Inc.												
Date-->						4/23/2020	9/14/2020	4/23/2020	9/14/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	5/12/2021
Sample-->						R1	R1	R2	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
Sample Depth--(Inches)-->						3-5	10-12	4-6	10-12	3-6	3-5	6-9	6-8	11-13	2-4	4-5	5-6	10-12
Percent Moisture (%)-->						28.6	12.9	22.4	15.4	16.7	18.8	13.3	8.6	8.1	11.3	3.9	8.3	10.4
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL													
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	1.1 ^J	<0.67	0.55 ^J	<0.39	<0.24	<0.18	<0.34	<0.52	<0.20	<0.17	<0.15	<0.22	<0.43
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	5.2 ^J	1.9 ^J	2.8 ^J	1.0 ^{I,J} _{EMPC}	0.55 ^{I,J} _{EMPC}	1.2 ^J	0.84 ^J	0.73 ^J	<0.10	<0.094	<0.097	0.24 ^{I,J} _{EMPC}	0.87 ^J
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	12	5.1 ^J	5.1 ^J	3.3 ^J	0.39 ^{I,J} _{EMPC}	1.7 ^J	0.89 ^{I,J} _{EMPC}	0.59 ^{I,J} _{EMPC}	<0.25	<0.22	<0.19	0.61 ^J	8.5
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	39	16	22	11	1.6 ^{I,J} _{EMPC}	6.0	3.5 ^J	2.6 ^J	<0.25	<0.17	0.29 ^J	1.5 ^J	2.3 ^J
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	24	8.5	10	5.2 ^{I,J} _{EMPC}	1.2 ^{I,J} _{EMPC}	3.6 ^J	1.9 ^J	1.2 ^J	<0.26	0.16 ^{I,J} _{EMPC}	<0.17	1.2 ^J	8.0
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	960	310	400	200	37	0.64 ^J	78	57	5.8	1.3 ^J	5.3	33	4.0 ^J
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	7,400	2,600	3,000	1,400	270	850	660	510	44	49	35	280	150
Total TCDD	--	ng/kg	--	--	--	22	7.5	9.3	4.1	1.2	6.3	<0.34	<0.52	<0.20	<0.17	<0.15	<0.22	1,300
Total PeCDD	--	ng/kg	--	--	--	58	20	29	5.9	2.4 ^J	11	<4.3	3.1 ^J	<0.10	<0.094	0.16 ^J	0.72 ^J	3.8
Total HxCDD	--	ng/kg	--	--	--	350	140	160	60	16	51	28	15.0	2.4 ^J	1.3 ^J	2.7 ^J	14	8.5
Total HpCDD	--	ng/kg	--	--	--	1,900	610	760	410	77	230	160	130	11	12	10	63	56
Furan Congeners																		
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	4.0 ^V	1.8 ^C	2.5 ^V	1.5 ^V	0.66 ^J	0.80 ^{I,J} _{EMPC}	<0.34	<0.48	<0.17	<0.26	<0.18	0.18 ^{I,J} _{EMPC}	1.1 ^C
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	4.7 ^J	1.9 ^J	3.2 ^J	<1.0	0.49 ^J	0.94 ^J	0.57 ^J	<0.022	<0.14	<0.047	<0.16	0.17 ^{I,J} _{EMPC}	1.00 ^J
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	12	5.0 ^J	15	4.8 ^J	1.3 ^J	2.4 ^J	5.7	9.2	0.14 ^{I,J} _{EMPC}	0.24 ^J	0.56 ^J	0.81 ^J	13
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	19	9.8 ^P _{EMPC}	24 ^P _{EMPC}	4.1 ^J	1.2 ^J	2.8 ^J	1.2 ^J	1.7 ^J	<0.28	<0.28	0.20 ^J	0.52 ^J	3.9 ^J
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	22	6.7	7.9	3.8 ^J	1.4 ^{I,J} _{EMPC}	4.8 ^P _{EMPC}	2.0 ^J	1.8 ^J	<0.18	0.85 ^J	0.90 ^{P,I} _{EMPC}	1.2 ^{P,I} _{EMPC}	5.2
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	23	7.5	15	6.8	1.5 ^J	3.6 ^J	4.8	1.9 ^J	<0.27	0.28 ^J	0.43 ^J	0.93 ^J	8.5
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	5.5 ^J	1.7 ^{I,J} _{EMPC}	3.1 ^J	<0.90	<0.46	0.64 ^J	0.67 ^{I,J} _{EMPC}	<0.17	<0.23	<0.20	<0.14	0.22 ^{I,J} _{EMPC}	1.6 ^{J,P} _{EMPC}
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	340	120	140	65	14	40	28	17	2.2 ^J	1.8 ^J	1.9 ^J	8.6	61
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	17	6.8	7.6	2.7 ^{I,J} _{EMPC}	<0.50	2.0 ^J	1.3 ^J	1.2 ^J	<0.22	<0.15	<0.14	0.46 ^J	4.0 ^J
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	450	170	180	110	16	56	39	32	3.0 ^J	2.5 ^{I,J} _{EMPC}	2.4 ^J	19	92
Total TCDF	--	ng/kg	--	--	--	110	50	72	15	5.8	22	9.6	7.8	0.31 ^J	0.49 ^J	2.4	3.0	27
Total PeCDF	--	ng/kg	--	--	--	230	120	240	97	17	41	81	86	1.9 ^J	2.2 ^J	9.2	13	140
Total HxCDF	--	ng/kg	--	--	--	520	210	290	130	22	60	86	39	3.1 ^J	3.7 ^J	6.9	14	290
Total HpCDF	--	ng/kg	--	--	--	750	230	310	150	30	87	74	44	2.4 ^J	1.8 ^J	1.9 ^J	20	170
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	40	14	23	9.1	2.3	5.0	5.3	5.4	0.14	0.25	0.43	1.6	9.5

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet

This site is assessed as Non-Industrial

RCL = Residual Contaminant Level

DC = Direct Contact

ng/kg = Parts Per Trillion (ppt)

< = Concentration Below Laboratory Detection Limit

-- = Not Sampled/Collected

-- = No Standard/Not Applicable

TEQ = Toxicity Equivalent Calculations

¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin

PeCDD: Pentachlorodibenzo-p-dioxin

HxCDD: Hexachlorodibenzo-p-dioxin

HpCDD: Heptachlorodibenzo-p-dioxin

OCDD: Octachlorodibenzo-p-dioxin

TCDF: Tetrachlorodibenzofuran

PeCDF: Pentachlorodibenzofuran

HxCDF: Hexachlorodibenzofuran

HpCDF: Heptachlorodibenzofuran

OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value

EMPC = Estimated Maximum Possible Concentration

^P = PCDE Interference

^I = Interference Present

^V = Results verified by confirmation analysis

^C = Results obtained from confirmation analysis

^D = Results obtained from analysis of diluted sample

^E = Exceeds calibration Range

Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

Table 5
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						REI Engineering, Inc.										
Date-->						4/23/2020	4/23/2020	5/12/2021	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020
Sample-->						P1	P1	P1	P2	P2	P3	P3	P4	P4	P5	P5
Sample Depth--(Inches)-->						2-3	7-9	22-24	2-3	10-12	2-3	12-14	2-3	9-11	2-3	11-13
Percent Moisture (%)-->						45.0	24.7	12.7	20.7	19.5	19.0	12.0	17.8	12.9	19.9	16.8
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL											
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	0.35 ^J	0.71 ^J	<3.9 ^D	<0.30	<0.13	<0.24	<0.74	<0.96	<0.54	<0.76	<0.91
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	3.0 ^{I, J, EMPC}	6.1	3.0 ^{J, D}	0.43 ^J	<0.15	0.25 ^J	0.42 ^{I, J, EMPC}	<0.56	<0.53	0.74 ^{I, J, EMPC}	<0.79
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	6.0 ^J	14	10 ^{J, D}	0.58 ^{I, J, EMPC}	<0.21	0.61 ^J	0.77 ^{I, J, EMPC}	1.8 ^{I, J, EMPC}	0.57 ^{I, J, EMPC}	1.8 ^J	<0.39
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	23	57	50 ^D	2.6 ^J	0.4 ^J	1.4 ^J	1.4 ^J	3.9 ^J	1.9 ^J	4.4 ^J	0.64 ^J
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	13	30	26 ^D	1.6 ^{I, J, EMPC}	0.35 ^{I, J, EMPC}	0.67 ^{I, J, EMPC}	0.76 ^J	3.0 ^J	0.82 ^{I, J, EMPC}	2.6 ^{I, J, EMPC}	<0.64
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	520	1,200	900 ^D	55	4.8 ^J	27	28	110	39	110	17
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	4,000	9,600	6,600 ^D	370	67	170	220	890	310	840	130
Total TCDD	--	ng/kg	--	--	--	4.0	9.6	<3.9 ^D	1.7	0.82 ^J	<0.24	<0.74	<0.96	<0.54	2.3	1.1
Total PeCDD	--	ng/kg	--	--	--	18	53	26 ^D	5.3 ^J	<0.15	1.8 ^J	0.82	3.6 ^J	<0.43	6.6	<0.79
Total HxCDD	--	ng/kg	--	--	--	200	430	330 ^D	22	4.8 ^J	9.1	7.2	37	12	43	5.9
Total HpCDD	--	ng/kg	--	--	--	1,100	2,500	1,800 ^D	110	19	52	54	200	73	200	31
Furan Congeners																
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	1.6 ^J	2.6 ^V	<4.6 ^D	0.47 ^J	<0.21	0.26 ^{I, J, EMPC}	<0.64	<0.74	<0.77	<0.96	<0.66
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	3.1 ^J	6.1	<1.1 ^D	0.40 ^{I, J, EMPC}	<0.26	<0.48	<0.61	<1.2	<0.59	<1.1	<1.1
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	26	34	22 ^{J, D}	1.1 ^J	<0.22	0.61 ^J	2.2 ^J	2.3 ^{I, J, EMPC}	0.89 ^J	1.8 ^{I, J, EMPC}	0.55 ^{I, J, EMPC}
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	9.3	15	16 ^{J, D}	1.4 ^J	<0.30	0.83 ^J	0.73 ^J	2.3 ^{I, J, EMPC}	1.6 ^{P, J, EMPC}	2.4 ^{I, J, EMPC}	<0.41
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	10	21	16 ^{J, D}	2.1 ^{P, J, EMPC}	0.55 ^J	1.3 ^{I, J, EMPC}	0.81 ^{I, J, EMPC}	2.4 ^J	0.86 ^J	1.7 ^J	<0.45
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	25	39	14 ^{J, D}	1.7 ^J	0.22 ^{I, J, EMPC}	0.67 ^{I, J, EMPC}	1.6 ^{I, J, EMPC}	3.0 ^J	0.65 ^J	2.7 ^J	<0.45
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	4.5 ^J	6.9	<1.5 ^D	<0.56	<0.24	<0.33	<0.33	<0.16	<0.14	<0.40	<0.43
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	140	340	250 ^D	16	3.9 ^J	11	8.1	41	16	54 ^{P, EMPC}	9.5 ^{P, EMPC}
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	9.7	21	14 ^{J, D}	0.78 ^{I, J, EMPC}	<0.60	<0.87	<0.51	1.4 ^J	<0.27	<0.72	<0.98
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	240	540	400 ^D	26	4.1 ^{I, J, EMPC}	12	13	55	20	59	12
Total TCDF	--	ng/kg	--	--	--	81	110	74 ^D	6.2	0.48	2.6	1.8	13	1.6	8.9	<0.66
Total PeCDF	--	ng/kg	--	--	--	440	610	280 ^D	17	2.9	9.7	25	31	12	26	3.6 ^J
Total HxCDF	--	ng/kg	--	--	--	440	830	550 ^D	25	5.7	15	24	40	17	45	3.0 ^J
Total HpCDF	--	ng/kg	--	--	--	380	840	620 ^D	35	7.8	20	18	83	31	46	8.3
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	<u>28</u>	<u>54</u>	<u>37</u>	2.7	0.26	1.4	2.1	4.1	1.6	4.7	0.54

Notes:
NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet
This site is assessed as Non-Industrial
RCL = Residual Contaminant Level
DC = Direct Contact
ng/kg = Parts Per Trillion (ppt)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
- - = No Standard/Not Applicable
TEQ = Toxicity Equivalent Calculations
¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin
PeCDD: Pentachlorodibenzo-p-dioxin
HxCDD: Hexachlorodibenzo-p-dioxin
HPCDD: Heptachlorodibenzo-p-dioxin
OCDD: Octachlorodibenzo-p-dioxin
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PeCDF: Pentachlorodibenzofuran
HxCDF: Hexachlorodibenzofuran
HPCDF: Heptachlorodibenzofuran
OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:
^J = Estimated Value
EMPC = Estimated Maximum Possible Concentration
^P = PCDE Interference
^I = Interference Present
^V = Results verified by confirmation analysis
^C = Results obtained from confirmation analysis
^D = Results obtained from analysis of diluted sample
^E = Exceeds calibration Range
Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

Table 6
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						REI Engineering, Inc.									
Date-->						9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020
Sample-->						P6	P6	P7	P7	P8	P8	P9	P9	P10	P10
Sample Depth--(Inches)-->						2-3	10-12	2-3	10-12	2-3	10-12	2-3	10-12	2-3	10-12
Percent Moisture (%)-->						17.2	6.4	15.9	9.5	11.9	17.3	17.4	9.7	15.9	14.1
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL										
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	0.32 ^{I, J} _{EMPC}	<0.27	0.97 ^J	<0.27	0.69 ^J	0.61 ^J	<0.26	0.27 ^J	0.41 ^J	<0.38
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	3.2 ^J	0.33 ^J	3.8 ^J	0.62 ^J	6.4	6.6	3.3 ^J	0.68 ^J	5.9	2.7 ^J
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	7.9	<0.96	9.4	1.5 ^J	17	16	6.7	2.1 ^J	12	5.1 ^J
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	24	2.0 ^J	35	5.7	69	51	28	6.5	48	15
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	13	1.4 ^J	19	3.2 ^J	29	25	12	3.8 ^J	22	8.5
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	530	36	1,200	190	1,200	1,000	550	150	900	290
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	4,600	290	11,000 ^E	1,700	10,000 ^E	8,100	4,400	1,100	7,600	2,300
Total TCDD	--	ng/kg	--	--	--	8.1	0.61 ^J	20	5.2	18	9.5	16	3.5	10	3.6
Total PeCDD	--	ng/kg	--	--	--	24	0.33 ^J	45	8.9	49	50	44	6.6	44	22
Total HxCDD	--	ng/kg	--	--	--	180	1.6	330	52	480	390	250	5.7	350	130
Total HpCDD	--	ng/kg	--	--	--	1,000	66	2,400	360	2,300	1,900	1,100	280	1,800	560
Furan Congeners															
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	1.9 ^V	<0.44	3.7 ^C	0.86 ^{I, J} _{EMPC}	4.1 ^C	5.7 ^C	3.3 ^V	0.76 ^J	4.3 ^C	2.1 ^C
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	0.32 ^{I, J} _{EMPC}	<0.72	3.3 ^J	<1.1	4.7 ^J	5.9	3.4 ^J	0.88 ^J	4.5 ^J	2.7 ^J
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	17	1.9 ^J	8.9	2.0 ^J	32	66	8.5	2.3 ^{I, J} _{EMPC}	53	54
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	11	<0.86	11	2.3 ^{I, J} _{EMPC}	20	17	13	3.5 ^J	15	12
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	13	1.6 ^{P, J} _{EMPC}	8.7	2.5 ^{I, J} _{EMPC}	24	36	12	4.0 ^{P, J} _{EMPC}	24	37
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	10	<1.4	9.0	3.1 ^J	20	23	9.5	3.5 ^J	31	31
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	4.6 ^J	<0.69	3.7 ^J	0.67 ^J	8.3 ^I _{EMPC}	10	4.0 ^J	0.67 ^{I, J} _{EMPC}	8.4	6.8
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	180	16	230	42	310	330	230	59	300	140
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	12	<1.1	12	2.8 ^J	20	20	12	2.4 ^J	17	8.3
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	400	26	640	100	550	530	390	95	460	170
Total TCDF	--	ng/kg	--	--	--	56	4.5	77	16	82	150	86	18	140	110
Total PeCDF	--	ng/kg	--	--	--	250	32	150	30	500	990	150	47	810	930
Total HxCDF	--	ng/kg	--	--	--	450	36	300	52	830	1,300	350	78	1,000	950
Total HpCDF	--	ng/kg	--	--	--	560	40	570	96	790	840	480	120	730	360
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	26	2.0	35	6.1	54	62	24	6.6	53	36

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet

This site is assessed as Non-Industrial

RCL = Residual Contaminant Level

DC = Direct Contact

ng/kg = Parts Per Trillion (ppt)

< = Concentration Below Laboratory Detection Limit

- = Not Sampled/Collected

-- = No Standard/Not Applicable

TEQ = Toxicity Equivalent Calculations

¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin

PeCDD: Pentachlorodibenzo-p-dioxin

HxCDD: Hexachlorodibenzo-p-dioxin

HPcDD: Heptachlorodibenzo-p-dioxin

OCDD: Octachlorodibenzo-p-dioxin

TCDF: Tetrachlorodibenzofuran

PeCDF: Pentachlorodibenzofuran

HxCDF: Hexachlorodibenzofuran

HPcCDF: Heptachlorodibenzofuran

OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value

_{EMPC} = Estimated Maximum Possible Concentration

^P = PCDE Interference

^I = Interference Present

^V = Results verified by confirmation analysis

^C = Results obtained from confirmation analysis

^D = Results obtained from analysis of diluted sample

^E = Exceeds calibration Range

Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

Table 7
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						REI Engineering, Inc.												
Date-->						9/14/2020	9/14/2020	5/12/2021	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020
Sample-->						P11	P11	P11	P12	P12	P13	P13	P14	P14	P15	P15	P16	P16
Sample Depth--(Inches)-->						2-3	10-12	22-24	2-3	10-12	2-3	10-12	2-3	10-12	2-3	10-12	2-3	10-12
Percent Moisture (%)-->						18.7	17.7	9.3	20.5	14.3	20.7	13.8	16.8	3.7	12.1	6.9	15.3	6.6
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL													
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	1.5	0.79 ^{I, J} _{EMPC}	<0.17	<0.51	<0.39	<0.56	<0.44	<0.70	<0.27	<0.39	<0.36	<0.77	<0.50
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	11	7.1	1.3 ^J	1.9 ^J	1.1 ^J	1.5 ^J	0.97 ^J	1.5 ^J	<0.30	1.7 ^J	2.5 ^J	2.7 ^J	<0.93
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	24	15	1.5 ^J	3.5 ^J	1.9 ^{I, J} _{EMPC}	3.3 ^{I, J} _{EMPC}	2.1 ^{I, J} _{EMPC}	2.9 ^J	0.75 ^J	5.7	4.0 ^{I, J} _{EMPC}	5.0 ^J	<1.7
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	100	52	8.7	13	7.4	22	13	13	3.7 ^J	16	18	16	<2.0
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	45	25	3.8 ^J	6.7	4.8 ^J	10	6.9	5.9	1.6 ^J	9.7	9.4	10	<1.6
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	1,900	880	150	220	120	830	370	220	72	350	370	300	40
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	18,000 ^E	7,500	1,100	1,700	920	3,900	2,100	1,800	530	2,500	3,100	2,400	310
Total TCDD	--	ng/kg	--	--	--	21	19	0.57 ^J	8.0	4.2	5.3	4.5	6.9	1.7	1.4	4.8	4.4	<0.50
Total PeCDD	--	ng/kg	--	--	--	86	60	7.6	29	170	12	12	19	4.9	14	14	15	<0.93
Total HxCDD	--	ng/kg	--	--	--	700	380	52	120	64	220	120	100	30	140	140	130	8.1
Total HpCDD	--	ng/kg	--	--	--	3,700	1,700	270	410	240	1,400	660	420	130	690	760	570	74
Furan Congeners																		
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	9.1 ^C	8.7 ^C	0.83 ^J	2.2 ^C	1.2 ^C	0.91 ^{I, J} _{EMPC}	1.3 ^V	1.7 ^C	<0.30	2.2 ^C	1.9 ^V	1.1 ^{I, J} _{EMPC}	<0.69
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	11	7.4	0.88 ^J	2.0 ^{I, J} _{EMPC}	<1.8	<1.6	<1.4	<1.3	<1.3	2.1 ^J	1.9 ^{I, J} _{EMPC}	<0.74	<1.1
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	<u>110</u>	<u>130</u>	15	14	10	10	8.1	4.1 ^J	1.7 ^J	5.4	6.0	2.5 ^{I, J} _{EMPC}	1.0 ^J
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	22	17	3.1 ^J	6.6	2.6 ^{I, J} _{EMPC}	4.9 ^J	3.7 ^J	4.9 ^J	2.1 ^J	9.0	9.2	8.3	1.2 ^{I, J} _{EMPC}
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	46	32	5.3	20 ^P _{EMPC}	13 ^P _{EMPC}	5.7 ^J	5.8	7.7 ^P _{EMPC}	2.3 ^J	9.3	6.9 ^I _{EMPC}	7.9	<1.2
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	56	58	16	7.6	4.1 ^J	7.7	5.9	6.7	0.96 ^{I, J} _{EMPC}	5.5	7.3	5.3 ^J	1.8 ^J
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	18	16	2.0 ^J	2.5 ^J	<1.2	<1.5	0.97 ^{I, J} _{EMPC}	<1.4	<0.36	2.2 ^J	2.4 ^J	2.3 ^{I, J} _{EMPC}	<1.3
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	540	340	47	95	50	110	89	100	30	120	140	110	15
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	38	22	3.3 ^J	5.5 ^J	2.2 ^{I, J} _{EMPC}	5.5 ^{I, J} _{EMPC}	5.5 ^J	5.5 ^J	0.79 ^{I, J} _{EMPC}	6.5	8.4	5.7	<2.8
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	840	530	65	130	65	210	140	170	49	230	210	170	23
Total TCDF	--	ng/kg	--	--	--	280	290	33	72	39	34	38	32	7.7	26	27	25	1.9
Total PeCDF	--	ng/kg	--	--	--	1,400	1,500	220	230	160	150	150	87	28	100	92	74	5.0 ^J
Total HxCDF	--	ng/kg	--	--	--	2,100	2,000	130	260	170	230	200	130	42	220	210	180	22
Total HpCDF	--	ng/kg	--	--	--	1,300	890	130	200	100	280	210	220	66	300	310	230	31
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	<u>108</u>	<u>84</u>	12	16	9.6	21	13	11	2.9	15	16	14	1.2

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet

This site is assessed as Non-Industrial

RCL = Residual Contaminant Level

DC = Direct Contact

ng/kg = Parts Per Trillion (ppt)

< = Concentration Below Laboratory Detection Limit

-- = Not Sampled/Collected

-- = No Standard/Not Applicable

TEQ = Toxicity Equivalent Calculations

¹ = TEQ values calculated using the U.S. EPA 2007 values.

TCDD: Tetrachlorodibenzo-p-dioxin

PeCDD: Pentachlorodibenzo-p-dioxin

HxCDD: Hexachlorodibenzo-p-dioxin

HpCDD: Heptachlorodibenzo-p-dioxin

OCDD: Octachlorodibenzo-p-dioxin

TCDF: Tetrachlorodibenzofuran

PeCDF: Pentachlorodibenzofuran

HxCDF: Hexachlorodibenzofuran

HpCDF: Heptachlorodibenzofuran

OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value

_{EMPC} = Estimated Maximum Possible Concentration

^P = PCDE Interference

^I = Interference Present

^V = Results verified by confirmation analysis

^C = Results obtained from confirmation analysis

^D = Results obtained from analysis of diluted sample

^E = Exceeds calibration Range

Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

Table 8
Soil Analytical Results - NR720 Soil Standards
City of Wausau - Riverside Park
132 River Street
Wausau, WI 54401
BRRTS# 02-37-584785

Collected By-->						REI Engineering, Inc.							
Date-->						5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/11/2021
Sample-->						P17	P17	P18	P18	P19	P19	P20	P20
Sample Depth--(Inches)-->						2-3	10-12	2-3	14-16	2-3	14-16	2-3	12-14
Percent Moisture (%)-->						26.4	16.2	18.6	4.2	25.1	15.9	14.3	3.9
Saturated (S) vs Unsaturated (U)-->						U	U	U	U	U	U	U	U
Dioxin Congeners	CAS Number	Units	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL								
2,3,7,8-TCDD	1746-01-6	ng/kg	4.82	21.8	30.0	0.59 ^{J, I, EMPC}	1.2	<2.7 ^D	<0.37	<0.79	<0.32	<3.1 ^D	<0.32
1,2,3,7,8-PeCDD	36088-22-9	ng/kg	4.93	22.3	--	4.7 ^J	7.6	<1.4 ^D	<0.21	1.1 ^J	0.63 ^J	2.5 ^{J, D}	<0.20
1,2,3,4,7,8-HxCDD	39227-28-6	ng/kg	49.3	223	--	12	18	5.1 ^{J, D}	<0.46	2.4 ^J	0.87 ^J	3.3 ^{J, D}	<0.37
1,2,3,6,7,8-HxCDD	57653-85-7	ng/kg	49.3	223	--	46	86	20 ^{J, D}	<0.44	9.4	3.4 ^J	11 ^{J, D}	1.0 ^{J, I, EMPC}
1,2,3,7,8,9-HxCDD	19408-74-3	ng/kg	49.3	223	--	22	38	9.6 ^{J, D}	<0.41	3.9 ^{J, I, EMPC}	1.8 ^{J, I, EMPC}	5.1 ^{J, D}	0.4 ^{J, I, EMPC}
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/kg	484	2.19E+03	--	900	1,400	360 ^D	3.9 ^J	180	72	240 ^D	17
OCDD	3268-87-9	ng/kg	1.64E+04	7.44E+04	--	7,000 ^E	11,000 ^E	2,700	29	1,400	540	1,900 ^D	140
Total TCDD	--	ng/kg	--	--	--	7.9	8.7	<2.7 ^D	<0.37	5.6	4.0	<3.1 ^D	<0.32
Total PeCDD	--	ng/kg	--	--	--	40	51	2.4 ^{J, D}	<0.21	11	6.8	7.7 ^{J, D}	<0.20
Total HxCDD	--	ng/kg	--	--	--	300	480	150 ^D	1.4 ^J	72	28	84 ^D	6.2
Total HpCDD	--	ng/kg	--	--	--	1,700	2,700	710 ^D	3.9 ^J	330	130	450 ^D	33
Furan Congeners													
2,3,7,8-TCDF	51207-31-9	ng/kg	48.2	219	--	2.1 ^V	4.2 ^C	<2.5 ^D	<0.69	1.6 ^V	<0.56	<4.0 ^D	<0.50
1,2,3,7,8-PeCDF	57117-41-6	ng/kg	164	744	--	3.3 ^J	5.2	<2.5 ^D	<0.35	1.2 ^J	0.91 ^J	>2.9 ^D	<0.21
2,3,4,7,8-PeCDF	57117-31-4	ng/kg	16.4	74.4	--	13	30	17 ^{J, D}	<0.38	3.4 ^J	1.9 ^J	6.7 ^{J, D}	0.43 ^J
1,2,3,4,7,8-HxCDF	70648-26-9	ng/kg	48.5	220	--	12	22	8.8 ^{J, D}	<0.42	4.2 ^J	2.1 ^J	6.8 ^{J, D}	0.6 ^J
1,2,3,6,7,8-HxCDF	57117-44-9	ng/kg	48.5	220	--	13	24	11 ^{J, D}	<0.35	3.9 ^J	1.9 ^J	6.9 ^{J, D}	0.38 ^{J, I, EMPC}
2,3,4,6,7,8-HxCDF	60851-34-5	ng/kg	49.3	223	--	21	44	19 ^{J, D}	<0.41	3.2 ^J	1.6 ^J	6.7 ^{J, D}	0.53 ^{J, I, EMPC}
1,2,3,7,8,9-HxCDF	72918-21-9	ng/kg	49.3	223	--	4.9	8.1	<4.6 ^D	<0.33	1.8 ^{J, I, EMPC}	0.89 ^{J, I, EMPC}	<1.9 ^D	<0.39
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/kg	490	2.22E+03	--	210	340	130 ^D	1.5 ^J	62	30	100 ^D	6.5
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/kg	490	2.22E+03	--	13	21	8.7 ^{J, D}	<0.57	3.3 ^{J, I, EMPC}	1.4 ^J	5.9 ^{J, I, D, EMPC}	<0.51
OCDF	39001-02-0	ng/kg	1.64E+04	7.44E+04	--	380	590	170 ^D	2.1 ^J	120	58	170 ^D	11
Total TCDF	--	ng/kg	--	--	--	59	100	43 ^D	<0.69	20	11	<4.0 ^D	0.59 ^{J, B}
Total PeCDF	--	ng/kg	--	--	--	200	360	250 ^D	4.6 ^J	54	23	84 ^D	5.4
Total HxCDF	--	ng/kg	--	--	--	270	660	210 ^D	2.0 ^J	100	28	160 ^D	10
Total HpCDF	--	ng/kg	--	--	--	540	880	290 ^D	3.3 ^J	150	130	240 ^D	15
Total 2,3,7,8-TCDD Equivalence ¹	--	ng/kg	4.82	21.8	30.0	36	63	18	0.063	8.1	3.7	13	0.70

Notes:

NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet

This site is assessed as Non-Industrial

RCL = Residual Contaminant Level

DC = Direct Contact

ng/kg = Parts Per Trillion (ppt)

< = Concentration Below Laboratory Detection Limit

-- = Not Sampled/Collected

-- = No Standard/Not Applicable

TEQ = Toxicity Equivalent Calculations

¹ = TEQ values calculated using the U.S. EPA 2007 values.

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PeCDD: Pentachlorodibenzo-p-dioxin
HxCDD: Hexachlorodibenzo-p-dioxin
HPCDD: Heptachlorodibenzo-p-dioxin
OCDD: Octachlorodibenzo-p-dioxin
TCDF: Tetrachlorodibenzofuran
PeCDF: Pentachlorodibenzofuran
HxCDF: Hexachlorodibenzofuran
HPCDF: Heptachlorodibenzofuran
OCDF: Octachlorodibenzofuran

Laboratory Qualifiers and Notes:

^J = Estimated Value

^{EMPC} = Estimated Maximum Possible Concentration

^P = PCDE Interference

^I = Interference Present

^V = Results verified by confirmation analysis

^C = Results obtained from confirmation analysis

^D = Results obtained from analysis of diluted sample

^E = Exceeds calibration Range

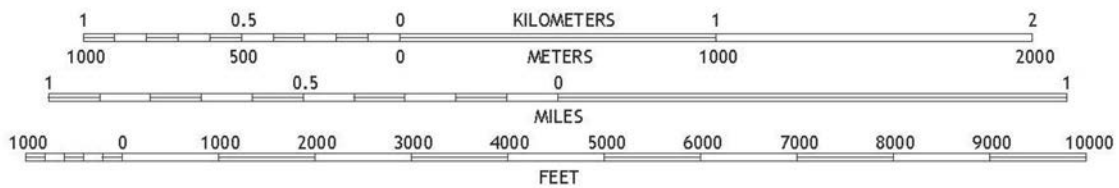
Results reported on a dry weight basis and are valid to no more than 2 significant figures

<i>Italic</i>	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
<u>Underlined</u>	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL

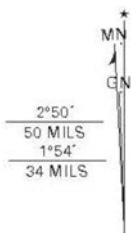
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SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988



UTM GRID AND 2019 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

WAUSAU WEST QUADRANGLE
WISCONSIN - MARATHON COUNTY
7.5-MINUTE SERIES



WAUSAU WEST, WI
2018

REI ENGINEERING, INC.

RIVERSIDE RAIL CORRIDOR
132 RIVER STREET
WAUSAU, WI



FIGURE 1 : VICINITY MAP

PROJECT NO.
9073

DRAWN BY:
MCM

DATE:
12/31/2019

DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\DWGS\9073-DETAILED SITE.DWG LAYOUT: SITE (24X36) PLOTTED: JUL 02, 2021 - 10:35AM PLOTTED BY: MATTM



DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\dwgs\9073-DETAILED SITE.DWG LAYOUT: RR CloseUP PLOTTED: JUL 02, 2021 - 10:38AM PLOTTED BY: MATTM



LEGEND

0

60

SCALE: 1" = 60'

PROPOSED SOIL SAMPLE (2021)
- REI ENGINEERING, INC

SOIL SAMPLE - PARK (2020)
- REI ENGINEERING, INC

SOIL SAMPLE - RR CORRIDOR (2020)
- REI ENGINEERING, INC

SOIL SAMPLE (2019)
- SAND CREEK CONSULTANTS, INC

SOIL SAMPLE (2019)
- TRC

SOIL SAMPLE (2018)
- SAND CREEK CONSULTANTS, INC

SOIL SAMPLE (2017)
- AECOM

SOIL SAMPLE (2008)
- CWE, INC

SOIL SAMPLE (2006)
- CWE, INC

PROPERTY BOUNDARIES (APPROXIMATE)

NOTES:

1. TRC SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON TRC'S MAP "LOCATION OF 36 SOIL SAMPLES AND RCL EXCEEDANCES", IDENTIFIED AS FIGURE 6 (OCTOBER 2019).
2. SAND CREEK CONSULTANTS, INC SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON THE CITY OF WAUSAU AND MARATHON COUNTY GIS MAP "SOIL SAMPLES LOCATIONS RIVERSIDE PARK" (DECEMBER 2019)
3. CWE, INC. SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON CWE'S MAP "SAMPLE LOCATION MAP" (OCTOBER 2009)
4. NOT ALL SAMPLE LOCATIONS ARE IDENTIFIED ON THIS MAP. ALL AVAILABLE SAMPLE LOCATIONS ARE DEPICTED ON THE EXPANDED DETAILED SITE MAP UNLESS NOTED.

CITY OF WAUSAU - RIVERSIDE PARK
132 RIVER STREET
WAUSAU, WISCONSIN

FIGURE 3 : DETAILED SITE MAP - RAILROAD

PROJECT No. 9073	DRAWN BY: MCM	DATE: 7/1/2021
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REI Engineering, INC.

DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\dwgs\9073-DETAILED SITE.DWG LAYOUT: PARK CLOSEUP PLOTTED: JUL 02, 2021 - 10:39AM PLOTTED BY: MATTH



LEGEND

060

SCALE: 1" = 60'

PROPOSED SOIL SAMPLE (2021)
- REI ENGINEERING, INC

SOIL SAMPLE - PARK (2020)
- REI ENGINEERING, INC

SOIL SAMPLE - RR CORRIDOR (2020)
- REI ENGINEERING, INC

SOIL SAMPLE (2019)
- SAND CREEK CONSULTANTS, INC

SOIL SAMPLE (2019)
- TRC

SOIL SAMPLE (2018)
- SAND CREEK CONSULTANTS, INC

SOIL SAMPLE (2017)
- AECOM

SOIL SAMPLE (2008)
- CWE, INC

SOIL SAMPLE (2006)
- CWE, INC

PROPERTY BOUNDARIES (APPROXIMATE)

NOTES:

1. TRC SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON TRC'S MAP "LOCATION OF 36 SOIL SAMPLES AND RCL EXCEEDANCES", IDENTIFIED AS FIGURE 6 (OCTOBER 2019).
2. SAND CREEK CONSULTANTS, INC SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON THE CITY OF WAUSAU AND MARATHON COUNTY GIS MAP "SOIL SAMPLES LOCATIONS RIVERSIDE PARK" (DECEMBER 2019)
3. CWE, INC. SOIL SAMPLE LOCATIONS ARE AN APPROXIMATION BASED ON CWE'S MAP "SAMPLE LOCATION MAP" (OCTOBER 2009)
4. NOT ALL SAMPLE LOCATIONS ARE IDENTIFIED ON THIS MAP. ALL AVAILABLE SAMPLE LOCATIONS ARE DEPICTED ON THE EXPANDED DETAILED SITE MAP UNLESS NOTED.

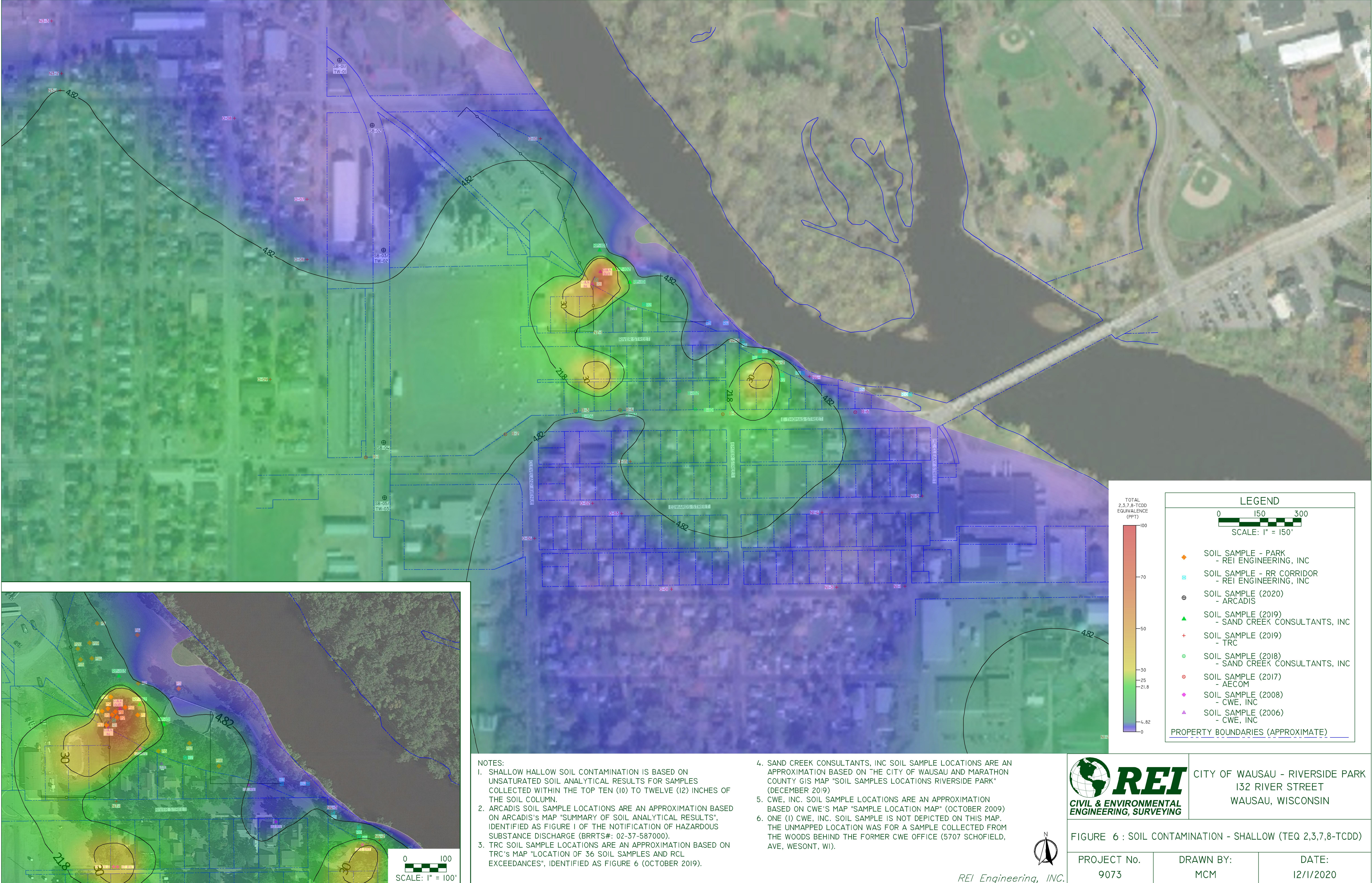
CITY OF WAUSAU - RIVERSIDE PARK
132 RIVER STREET
WAUSAU, WISCONSIN

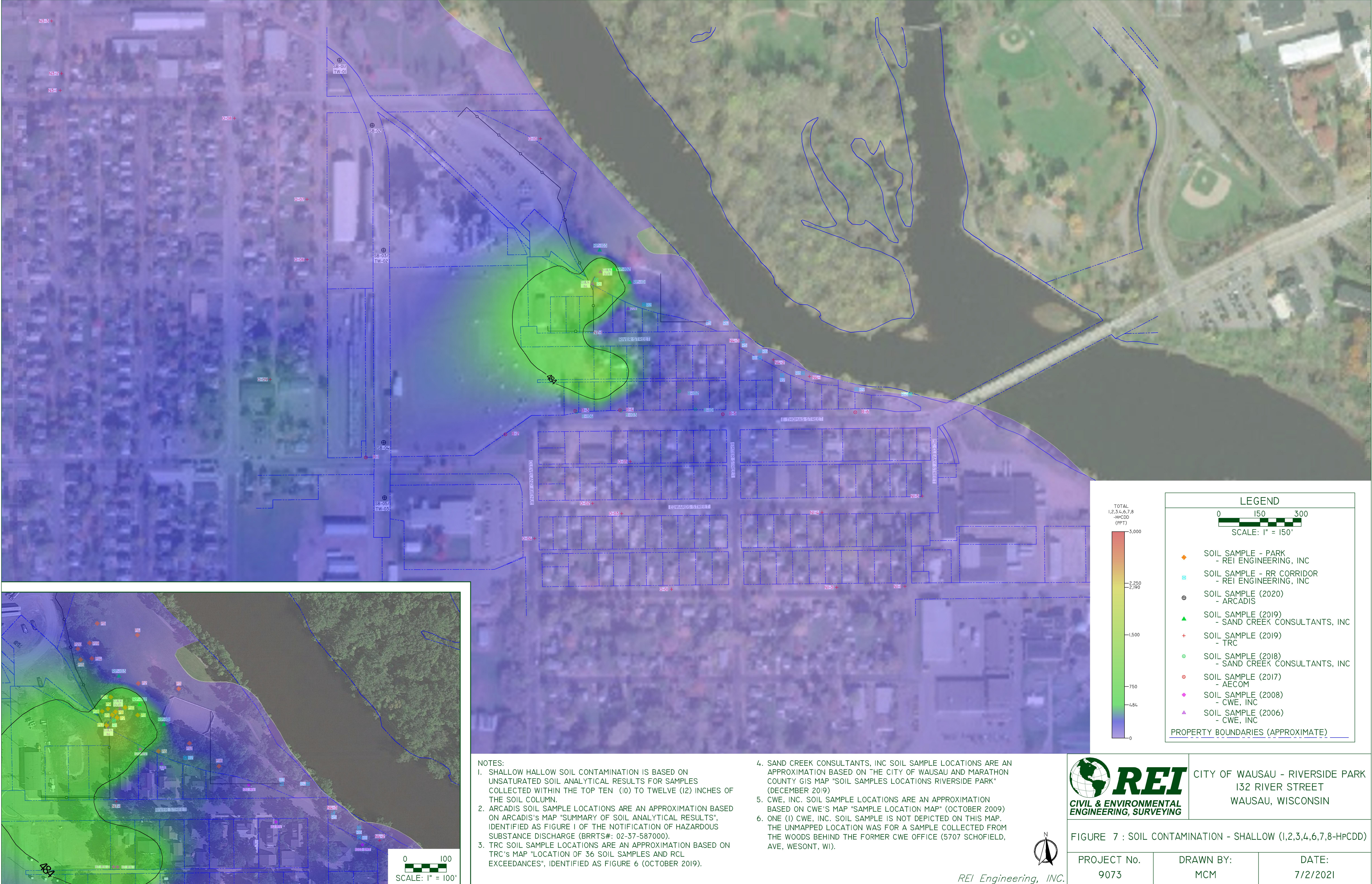
FIGURE 4 : DETAILED SITE MAP - PARK

PROJECT No. 9073	DRAWN BY: MCM	DATE: 7/1/2021
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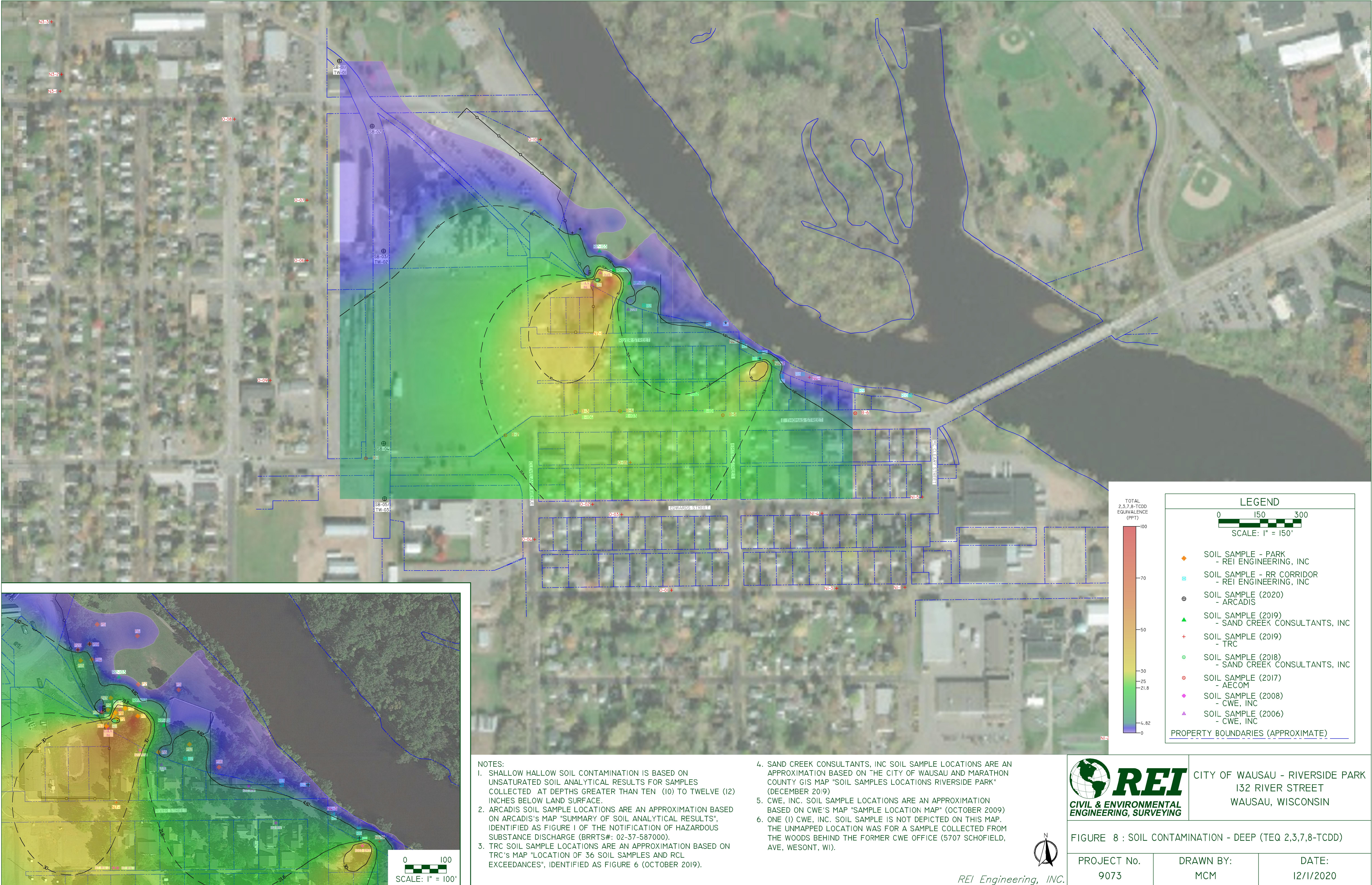
REI Engineering, INC.

DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\DWGS\9073-Soil Contamination-Shallow (TEQ) EXPANDED.DWG LAYOUT: SITE (24X36) PLOTTED: JUL 02, 2021 - 12:01PM PLOTTED BY: MATTM

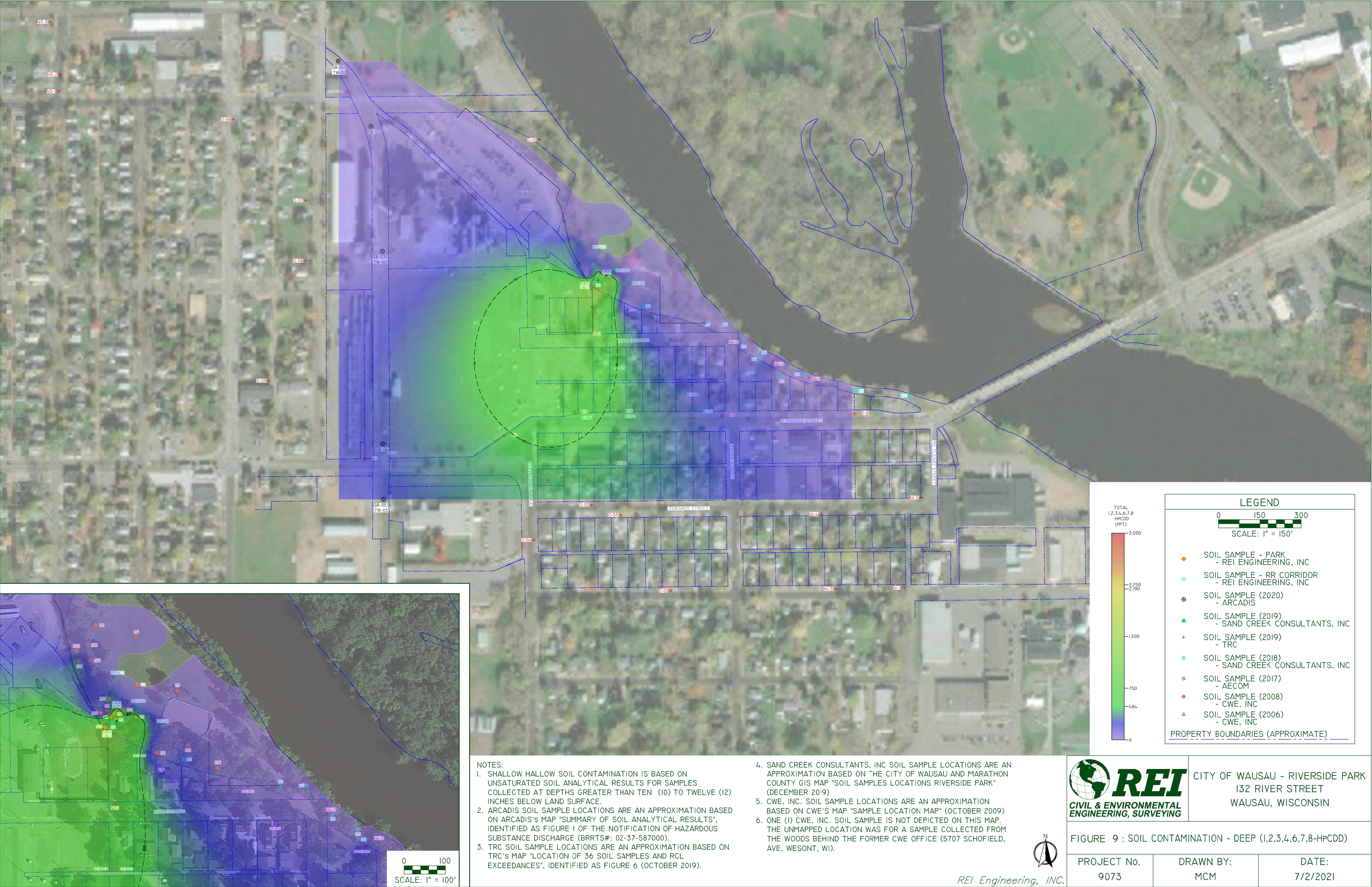




DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\DWGS\9073-Soil CONTAMINATION-DEEP (TEQ) EXPANDED.DWG LAYOUT: SITE (24X36) PLOTTED: JUL 02, 2021 - 2:04PM PLOTTED BY: MATTM

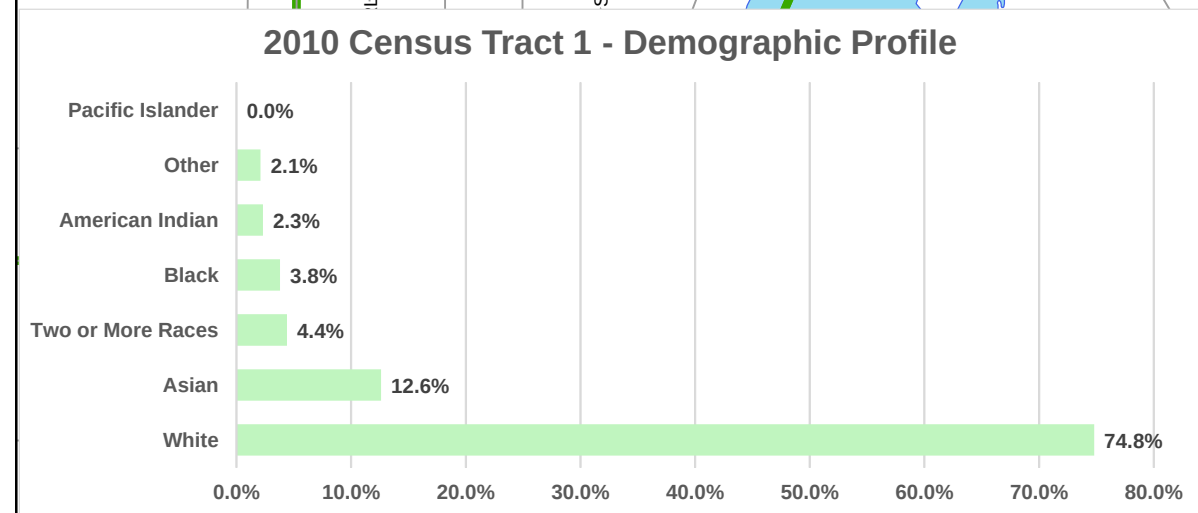


DRAWING FILE: P:\9000-9099\9073 - CITY OF WAUSAU RIVERSIDE RR CORRIDOR\DWGS\9073-Soil CONTAMINATION-DEEP (HPCDD) EXPANDED.DWG LAYOUT: SITE (24X36) PLOTTED: Jul 02, 2021 - 1:00PM PLOTTED BY: MATTM



Marathon County - Wisconsin

Map Date: 7/8/2021



GOAT FAQ

- What is happening in this park?
 - The Wausau/Marathon County Parks, Recreation & Forestry Department is conducting prescribed grazing trials to manage invasive species and promote the establishment of native vegetation. This prescribed grazing will include the use of goats, confined to specific targeted areas (Barker Stewart Island), to manage and suppress invasive vegetation. Grazing is an important management tool for natural areas. Advantages to grazing include reducing the need for chemical control methods, minimizing erosion risks, improved access to difficult terrain and reduction in staff time needed for manual removals.
- Why goats?
 - Using goats instead of conventional management strategies reduces the need for chemicals, minimizes erosion risks, improves access to difficult terrain and reduces staff time needed for manual removals. Goats are being used because they will eat the specific invasive species being targeted.
- Which invasive species are being targeted?
 - Chiefly honeysuckle, buckthorn, and garlic mustard.
- Where did the goats come from?
 - These goats belong to a local farmer who hires them out for land management purposes. They return to the farm when they are not being deployed for land management, for example during the winter.
- How many goats will be used?
 - Approximately 50 goats will be used, including adults and some adolescents.
- How much do they weigh?
 - The adult goats weigh from 80-100 lbs. The adolescents weigh about 20-30 lbs.
- How are the goats confined?
 - They are confined through the use of electric fencing.
- What happens if a person touches the electric fence?
 - The person will receive a shock of electricity, which will be uncomfortable but not dangerous.
- What do the goats eat?
 - They eat a variety of plant material, including our targeted invasive species. They are also provided with fresh water and minerals. They eat an average of 8 lbs of vegetation per day, grazing for 12-16 hours every day!
- Won't the goats just eat the seeds of the invasive species and contribute to the spread through their feces?
 - Studies have shown that the viability of seeds, after passed through the digestive tract of a goat, is dramatically reduced. According to a study by Lacey et al. in 1992, when goats were fed leafy spurge (*Euphorbia esula*), only 18% of seeds were recovered from their feces and those that were recovered had reduced germination and viability.
 - Lacey, J. R., R. Wallander, and K. Olson-Rutz. 1992. Recovery, germinability and viability of leafy spurge (*Euphorbia esula*) seeds ingested by sheep and goats. *Weed Technol.* 6:566-602.
- Who is watching the goats?
 - Parks staff are checking on the goats multiple times per day to ensure their comfort and safety. Parks will contact the farmer should any issues arise.