



**Stormwater Committee
Committee Meeting Agenda
October 13, 2021
4:45 PM
Online**

Meeting Connection Information

As a precautionary measure to help prevent exposure to and spread of COVID-19, the Stormwater Committee meeting scheduled for 4:45 p.m. on Wednesday, October 13, 2021, will be held virtually as a Zoom meeting.

Citizens are encouraged to participate and submit public comments in the following ways:

1. **Video Livestream** - Watch a live online broadcast of the Stormwater Committee meeting using the following link: <https://us02web.zoom.us/j/88346102319>
The public will be required to provide a name and email address to enter the meeting (the email address will not be saved or used to contact you). Citizens will have the opportunity to make public comments live during the meeting using the Zoom program.
2. **Teleconference** - Call in to the meeting by dialing (312) 626-6799 and entering meeting ID 883 4610 2319 when prompted.
3. **Email** - Questions or comments that citizens wish the Stormwater Committee to consider may be emailed to the City. In order for questions and comments to be considered at this meeting, those questions or comments must be submitted no later than 5:00 p.m. on Tuesday, October 12, 2021. Submit questions and comments to Matt Wohlberg, City Engineer, at mwohlberg@crevecoeurmo.gov.

I. Call Meeting to Order

II. Roll Call

III. Approval of Agenda

IV. Approval of Minutes

1. Approval of August 11, 2021 Stormwater Committee Meeting Minutes

V. Public Comments

VI. New Business

A. Committee Field Trip

Several years ago, the Stormwater Committee would coordinate a "field trip" meeting to review key stormwater projects and concerns. The Committee is asked to consider whether it wants to try to schedule a field trip in the fall of 2021, and, if so, where the Committee would like to visit.

VII. Unfinished Business

A. MS4 Audit

Staff will summarize the Department of Natural Resources stormwater audit that occurred on August 17. The City was found to be "in compliance" with its stormwater responsibilities.

The letter report from the Department of Natural Resources is included in the Committee's packet.

1. MS4 Audit Report



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B. Capital Improvement Program Updates

i. Conway Park Path Improvements

The City plans to replace the walking path in Conway Park in the spring of 2022. As part of this project, the drainage culverts beneath the path and the two concrete swales that lead to the pond. Staff will review the stormwater-related improvements with the Committee.

ii. New Engineer Hire in CIP

Staff will provide an update regarding the status of hiring additional staff to help manage the Capital Improvement Program.

iii. Stormwater Management Study

Public Works staff is preparing a recommendation to the Stormwater Committee for a City-wide review of stormwater concerns that could serve as the basis for the City's stormwater program for the next 10-15 years. Staff plans to submit the recommendation to the Committee in November so that it can be discussed at the December Stormwater Committee meeting.

iv. Stormwater Project Designs

The Capital Improvement Program includes the design of five stormwater projects in the current fiscal year. The City issued a request for qualifications for stormwater design services in the summer and received qualifications packages from several highly qualified firms. Staff anticipates presenting several stormwater design contracts to the City Council for consideration in December.

v. Identification of a Project in the CIP

Staff will discuss and answer questions about how projects are identified in the Capital Improvement Program.

C. Project Updates - MSD Projects

i. Pipe Repairs - 12958 and 12970 Ferntop Lane

MSD plans to make repairs to two pipes that drain into the common ground behind 12958 and 12970 Ferntop Lane. MSD has informed Melissa Inkley (12958 Ferntop) that construction could be delayed by eight or more weeks due to material backorder.

An email from MSD to Mrs. Inkley is included in the packet.

1. MSD Work Summary - 12958 Ferntop Lane

2. MSD-Inkley Updates for 12958 Ferntop Lane

ii. Pipe Lining - Hammersmith

MSD has recently completed some pipe in the Hammersmith subdivision that raised concerns among the neighboring residents.



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D. Committee Information Folder Updates

Dick Kutta converted the City's Stormwater Master Plan into a searchable pdf. This version of the Master Plan is included in the Committee's member resource folder and is available on the City's website.

VIII. Business from Committee Members

A. Flood Risk Hazard Notice (Jaffe)

Martin Jaffe asked that the Committee consider that the Federal Emergency Management Agency (FEMA) has reinstated more stringent requirements for some structures to be rebuilt if located in a flood plain, a disaster declaration is issued, and the City uses federal grant funds to assist with recovering from the disaster.

B. Stormwater Policy (Campbell)

Judy Campbell requested to discuss the City's stormwater policy. The City's policy is generally outlined in the City's Stormwater Regulations and in the Stormwater Master Plan, but there is no specific stormwater policy statement.

C. Definition of "Waters of the United States" (Jaffe)

Martin Jaffe has brought to the City's attention recent changes to the federal government's definition of "Waters of the United States." This definition has shifted between being very broad and being more selective over the past ten years or so. At issue is the level of regulations that apply to smaller creeks and streams, such as those within Creve Coeur.

D. MSD Townhall Meetings (Campbell)

Judy Campbell would like to inform the Committee that MSD has planned several virtual town hall meetings this fall. Four meetings remain: October 25, October 28, November 9, and November 11. The City has posted information about these town hall meetings on its website at: <https://www.crevecoeurmo.gov/CivicAlerts.aspx?AID=1223>.

IX. Business from Staff Liaison

A. Ethics Training Recap

All Stormwater Committee members have apparently attended the required ethics training. Staff will share a few key points from the training.

B. December Meeting

The next Stormwater Committee meeting is scheduled for 4:30 p.m. on Wednesday, December 8, 2021. This meeting is currently planned to be held online using Zoom.

X. Adjourn



**Stormwater Committee
Committee Meeting Minutes
August 11, 2021
4:30 PM
Online Meeting**

I. Call Meeting to Order

As a precautionary measure to help prevent exposure to and spread of COVID-19, this Stormwater Committee was held virtually as a Zoom meeting.

II. Roll Call

Martin Jaffe	Committee Member	(Remote)
Laura Catalano	Vice Chair	(Absent)
Judith Campbell	Chair	(Remote)
Richard Kutta	Committee Member	(Remote)
Patrick Brown	Committee Member	(Remote)
Kathleen Rizzo	Committee Member	(Remote)
Bernard Feldman	Committee Member	(Remote)
Mary Helen Gerst	Committee Member	(Remote)
Elliot Sharpe	Committee Member	(Remote)
Tim Carney	City Council Liaison	(Remote)
Jim Heines	Public Works Director	(Remote)
Matt Wohlberg	City Engineer	(Remote)

III. Approval of Agenda

The Committee voted to amend the agenda to move Public Comments before Approval of the Minutes.

IV. Approval of Minutes

1. Approval of June 8, 2021 Stormwater Committee Meeting Minutes

RESULT:	ACCEPTED [UNANIMOUS]
AYES:	Jaffe, Campbell, Kutta, Brown, Rizzo, Feldman, Gerst, Sharpe
ABSENT:	Catalano

V. Annual Elections

The Committee elected Judy Campbell as Committee Chair and Laura Catalano as Committee Vice Chair.

VI. Public Comments

A. Ferntop/Ferngate Pipes and Erosion

Melissa Inkley (12958 Ferntop Lane) and Jim Hearne (12970 Ferntop Lane) provided a summary of their stormwater concerns to date, including the sinkholes in Mrs. Inkley's yard, flooding of Mr. Hearne's basement in extreme rain events, and the erosion and deteriorated pipes in the common ground behind these properties.

Mrs. Inkley and Mr. Hearne stated that MSD has committed to making repairs to two of the pipes that lead to the channel behind their homes. The repair for the smaller pipe will be to replace the end section of the pipe, and the repair for the larger pipe will involve using concrete to create a new base to the pipe.



**Stormwater Committee
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VII. New Business

A. Stormwater Audit

Public Works staff informed the Committee that the Missouri Department of Natural Resources (MoDNR) plans to visit Creve Coeur to conduct an audit of the City's stormwater-management practices in August. The previous audit was completed in the fall of 2016, and that audit found the City to be in good standing.

Staff estimated that the audit would take about a day to complete.

VIII. Unfinished Business

A. Stormwater Concerns Update

i. Backyard Drainage on Turrentine Trail

Staff stated that they have not been able to coordinate a time with the resident to review this concern but will continue to try to do so.

B. Capital Improvement Program Update

i. Stormwater Management Plan

Staff informed the Committee that the scoping plan that was discussed in June turned out to be not feasible due to concerns about conflicts of interest with some of the parties involved. Staff will follow a more typical process and will develop recommendations regarding the scope and budget for the study.

Staff speculated that the stormwater management study, if approved, would be budgeted in FY2023 of the Capital Improvement Program.

Martin Jaffe stated his opposition to pursuing a City-wide stormwater management study, because he considers the City's current information to be sufficient to develop a stormwater program.

Staff stated that the purpose of the stormwater study would be to create a comprehensive understanding of the City's stormwater needs.

ii. Stormwater Design Services

Judy Campbell summarized the stormwater projects listed in FY2022 of the Capital Improvement Program.

Staff stated that a request for qualifications was issued for stormwater design services for these projects in June. Staff planned to make recommendations for stormwater design contracts to the City Council in September or possibly October.

C. Meeting Format

The Committee discussed whether to continue meeting virtually or to return to in-person meetings. The Committee decided to continue to meet virtually using Zoom.

Minutes Acceptance: Minutes of Aug 11, 2021 4:30 PM (Approval of Minutes)



**Stormwater Committee
Committee Meeting Minutes
August 11, 2021
4:30 PM
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The Committee also decided to change the start time for meetings to 4:45 p.m. to better accommodate all Committee members.

D. Committee Information Folder

A shared online folder was created as a resource for Stormwater Committee members. The Committee briefly discussed how to connect to this folder.

Judy Campbell asked if photos and documents related to residential stormwater concerns. Staff stated that type of information had yet to be added to the folder.

IX. Business from Committee Members

X. Business from Staff Liaison

A. October Meeting

Staff reminded the Committee that the next meeting was scheduled for 4:45 p.m. on Wednesday, October 13.

XI. Adjournment

The meeting adjourned at 6:30 p.m.

Minutes Acceptance: Minutes of Aug 11, 2021 4:30 PM (Approval of Minutes)



Missouri Department of dnr.mo.gov
NATURAL RESOURCES
Michael L. Parson, Governor Dru Buntin, Director

September 7, 2021

City of Creve Coeur
Mayor Robert Hoffman
300N. New Ballas Road
Creve Coeur, Missouri 63141

FINDING OF COMPLIANCE

Dear Dr. Robert Hoffman:

Staff from the Department of Natural Resources conducted an inspection on August 17, 2021 of the City of Creve Coeur MS4 located 300N. New Ballas Road in St. Louis County. The entity operates under the authority of Missouri State Operating Permit (permit) MOR040005.

Compliance with Missouri Clean Water Law, the Missouri Clean Water Commission Regulations, and permit MOR040005 was evaluated. The entity was found to be **in compliance** based upon the observations made at the time of the evaluation.

The enclosed inspection report describes the findings and may provide important recommendations, to ensure continued compliance. Your cooperation in implementing those recommendations will be appreciated.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact **Josh Rivers** by mail at the Missouri Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh Blvd., Suite 210, St. Louis, Missouri 63125; by phone at (314) 416-2960; or by email at DNRSIRO.WPC@dnr.mo.gov.

Sincerely,

ST. LOUIS REGIONAL OFFICE

Amber Foott
Environmental Supervisor

AJF/JSR/tmg

Communication: MS4 Audit Report (MS4 Audit)

**Missouri Department of Natural Resources
St. Louis Regional Office
Report of Inspection
City of Creve Coeur
300 N. New Ballas Road, Creve Coeur 63141
St. Louis County
MOR040005
September 7, 2021**

Introduction

Pursuant to Section 644.026.1 of the Missouri Clean Water Law, I, Josh Rivers of the Missouri Department of Natural Resources (Department) St Louis Regional Office (SLRO), conducted a routine audit of the City of Creve Coeur (City) Municipal Separate Storm Sewer System (MS4) program, located in St. Louis County, Missouri on August 17, 2021. I conducted the audit to determine the facility's compliance with the Missouri Clean Water Law, the Missouri Clean Water Commission Regulations, and Missouri State Operating Permit (permit) MOR040005. This report presents my findings and the observations I made during the audit.

Participants:

City of Creve Coeur (314)442-2084

Matt Wohlberg P.E	City Engineer	mwohlberg@crevecoeurmo.gov
Mike Fogg	Operations Superintendent	mfogg@crevecoeurmo.gov
Kevin Mulligan P.E	Civil Engineer	kmulligan@crevecoeurmo.gov

Metropolitan Sewer District (MSD) (314)436-8711

Joe Twellman	Industrial Waste Investigator	jtwellman@stlmsd.com
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Missouri Department of Natural Resource (314)416-2960

Josh Rivers	Environmental Specialist	josh.rivers@dnr.mo.gov
Morgan Downes	Environmental Specialist	morgan.downes@dnr.mo.gov
Heather Johnson	Environmental Specialist	heather.johnson@dnr.mo.gov
Brendin Wright	Environmental Specialist	brendin.wright@dnr.mo.gov
Marin Ostermeyer	Environmental Intern	marin.ostermeyer@dnr.mo.gov

Facility Description and History

I reviewed the files for the city's stormwater program, including the Permit Conditions of permit MOR040005, to familiarize myself with the requirements specific to this facility. I also reviewed the past Annual Reports and 2017-2021 Stormwater Management Plan for MSD.

The City is located in northeast St. Louis County, is part of the St. Louis Metropolitan Urbanized Area. With an estimated population of 18,538 the City covers 10.27 square miles.

The permit is co-permitted with the Metropolitan St. Louis Sewer District (MSD). The co-permittees under permit MOR040005 share responsibilities for administering the permit conditions, as described in the co-permittees' Storm Water Management Plan (SWMP). As described in 10 CSR 20-6.200, a municipality which serves a population of one thousand (1,000)

or more within an urbanized area is considered be a regulated MS4 and is required to meet the MS4 permitting conditions.

Permit MOR040005 was last issued on December 14, 2016 and expires on September 30, 2021. This permit sets forth permit conditions, both standard and specific, that the permittee is to follow.

Discussion of Inspection and Observations

Information presented below that I obtained regarding the City's MS4 program was gathered at various times. Some of the information was gathered during the records review process prior to the audit, during the audit interviews, during the site visits, following the audit during review of documents obtained during the audit and during review of the Department's records.

There are six Minimum Control Measures (MCMs) defined in the MS4 permit as follows:

MCM#1 Public Education and Outreach on Storm Water Impacts

MCM#2 Public Involvement and Participation

MCM#3 Illicit Discharge Detection and Elimination

MCM#4 Construction Site Storm Water Runoff Control

MCM#5 Post Construction Storm Water Management in New Development and Redevelopment

MCM#6 Pollution Prevention/ Good Housekeeping for Municipal Operations

The audit was conducted during normal business hours. I provided prior notification of the audit to allow the City time to gather the information requested. This was a focused audit of MCMs #4, #5, and #6

MCM #4 Construction Site Stormwater Runoff Control

Section 4.2.4 of the current general MS4 permit requires the permittee to develop, implement, and enforce a program to reduce pollutants in any storm water runoff to their regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre, or if less than one acre if that activity is part of a larger common plan of development or sale that would disturb one acre or more. The requirements for the construction site storm water runoff control program are listed in Sections 4.2.4.1.1 through 4.2.4.1.6 of permit MOR040005.

The city has its own land disturbance permit for sites that are an acre or greater, or smaller than an acre but part of a common plan of development. The city has ordinances in place to enforce permitting of land disturbance sites, as well as to require sediment and erosion controls. These ordinances are found in Municipal Code Chapter 420 and Sections 410-270.

The city ensures compliance with its ordinances by requiring developers to perform after rain event inspections. The city also performs regular compliance inspections of land disturbances sites around the city. The city has a checklist to perform site inspections. Enforcement procedures for the city's inspections are found within the ordinances. This includes: warnings with required actions, follow-up inspections, escrows, written violations, and stop work orders. During the audit, city inspector, Kevin Mulligan, performed a compliance inspection of the Santino Court subdivision. Mr. Mulligan then sent a follow-up email to the site owner stating violations and required actions. Mr. Mulligan successfully pointed out all the violations at the site. At the site I observed old Best Management Practices (BMPs) that were in need of removal

that were now considered solid waste (see Photos #1 and #2). Consider updating the city's checklist to ensure developers remove old or destroyed BMPs (see Recommendation #1).

MCM #5: Post Construction Storm Water Management in New Development and Redevelopment

Section 4.2.4 of the current general MS4 permit requires the permittee to develop, implement, and enforce a program to reduce pollutants in any storm water runoff to their regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre, or if less than one acre if that activity is part of a larger common plan of development or sale that would disturb one acre or more.

The city implements MCM #5 by adopting MSD's post construction ordinance, as well as having their own stream buffer and tree preservation ordinances. The most recent city development for the police department has multiple post construction BMPs. The site has a stormwater basin (see Photo #3). The basin has a debris trap in place that has started to accumulate trash and debris (see Photo #4). Consider creating a maintenance plan for this BMP to ensure trash and debris are removed before they cause drainage issues (see Recommendation #2). Other BMPs at this location include two rain gardens and pervious pavement (see Photos #5, #6, and #7).

During the Santino Court inspection, I observed a post construction BMP being installed (see Photo #8). Ensure that post construction BMPs that are installed during construction are not affected by the current construction (see Recommendation #3).

MCM#6 Pollution Prevention/ Good Housekeeping for Municipal Operation

Section 4.2.6 of the current general MS4 permit requires the permittee to develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

The city sent a copy of the Operation and Maintenance (O&M) Manual via email before the audit. The city's O&M manual was compliant with permit conditions. The city attended the most recent Good Housekeeping training hosted by MSD.

During the audit we viewed two city owned facilities. The first was the public works yard for the city. Vehicle washing occurs on site. Vehicle washing and maintenance occurs inside and over drains that lead to an oil water separator (see Photo #9). There are two fuel stations at the facility. Both fueling station had spill kits nearby (see Photo #10 and #11). The city has two salt domes (see Photos #12 and #14). Around the back of the main salt dome, there is a storm drain with BMPs nearby in case of a stormwater discharge with salt residue. I observed under the salt applicators that there was evidence of past drippings of oil or fluid. The city addressed the issue by zip tying and covering the leaking hoses (see Photo #15).

The second city own facility we viewed was a City maintained golf course. I observed a floor drain inside the maintenance building (see Photo #16). Keep this drain in mind if there are any spills inside (see Recommendation #4). This facility has one fueling station with a spill kit (see Photo #17). This site also has two material storage area with covered storage (see Photos #18 and #19). The gravel lot where this facility is located is next to a creek. I observed some of the gravel lot beginning to erode into the creek (see Photo #20). Ensure the erosion of the gravel lot does not contribute sediment pollution to the nearby creek (see Recommendation #5).

Report of Inspection
City of Creve Coeur
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Sampling and Monitoring

No samples were taken on the Audit.

Compliance Determination, Violations, and Required Actions

The facility was found to be in **compliance** with the Missouri Clean Water Law, the Missouri Clear Water Commission regulations, and permit MOR040005, based upon observations made during the inspection.

Recommendations

1. Old BMPs that have been spent are considered solid waste, ensure facilities properly remove and dispose of old BMPs.
2. Ensure that the city owned post construction BMP is being properly maintained.
3. Ensure facilities know that post construction BMPs should be worked on and completed near the end of the project.
4. Ensure the floor drain at the golf course maintenance shop is adequately protected from spills or other sources of pollution.
5. Ensure the gravel lot at the golf course facility doesn't contribute sediment pollution to the creek.

Additional Comments/Conclusions

Any questions regarding this report should be directed to Josh Rivers by phone at (314)416-2960; or by email at DNRSLRO.WPC@dnr.mo.gov. Any questions regarding the MS4 permit in general can be sent to the MS4 Coordinators at MS4@dnr.mo.gov.

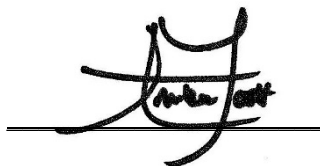
Signatures

SUBMITTED BY:



INSPECTOR
Environmental Specialist
St. Louis Regional Office

REVIEWED BY:



Amber Foott
Environmental Supervisor
St. Louis Regional Office

Attachments

Attachment 1: Photographs (#1 through #20)

Attachment 2: Aerial Maps

Communication: MS4 Audit Report (MS4 Audit)

Attachment #1- Photographs
City of Creve Coeur
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Photograph: #01
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Santino Court

Description: Old BMPs no longer in use should be removed.



Photograph: #02
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location:

Description: Old BMPs no longer in use should be removed.



Photograph: #03
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Creve Coeur Police Station

Description: Stormwater basin

Communication: MS4 Audit Report (MS4 Audit)

Attachment #1- Photographs
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Photograph: #04
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Stormwater basin

Description: Trash and debris trap in need of cleaning.



Photograph: #05
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Creve Coeur Police Station

Description: Rain garden #1



Photograph: #06
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Creve Coeur Police Station

Description: Rain garden #2

Communication: MS4 Audit Report (MS4 Audit)

Attachment #1- Photographs
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Photograph: #07
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Creve Coeur Police Station

Description: Pervious pavement



Photograph: #08
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Santino Court

Description: Post construction BMP being installed. Ensure it is not affected by active development.



Photograph: #09
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Wash bay for city vehicles. Drain leads to oil water separator.

Attachment #1- Photographs
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Photograph: #10
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Fueling station with spill kit



Photograph: #11
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Fueling station with spill kit



Photograph: #12
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Main salt dome

Attachment #1- Photographs
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Photograph: #13
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Storm drains next to salt domes.
BMPs nearby in case of any runoff issues.



Photograph: #14
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Reserve salt storage



Photograph: #15
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Salt applicators with signs of previous leaks. Leaky hoses have been contained once leaks were observed.

Attachment #1- Photographs
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Photograph: #16
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Golf Course

Description: Floor stormwater drain.



Photograph: #17
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Golf Course

Description: Fueling station with spill kit.



Photograph: #18
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Public works yard

Description: Covered material storage.

Communication: MS4 Audit Report (MS4 Audit)

Attachment #1- Photographs
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Photograph: #19
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Golf Course

Description: Material storage area.

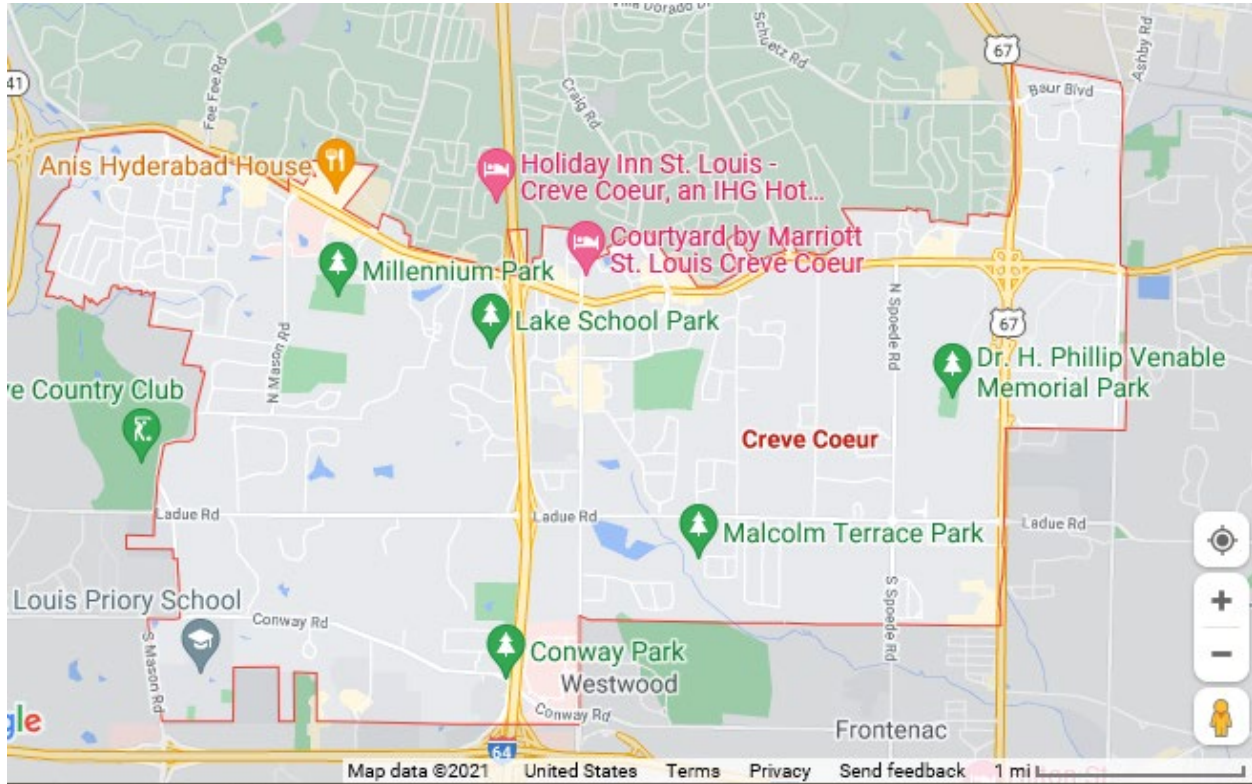


Photograph: #20
Taken By: Josh Rivers
Date Taken: 8/17/2021
Program: WPC Unit

Entity: City of Creve Coeur
Permit: MOR040005
Location: Golf Course

Description: Gravel lot starting to erode into the creek.

Attachment #2- Aerial Map
City of Creve Coeur
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Map 1: City Boundaries

MSD Inspectors' Report:

6535054: REPLACE SEWER / STORM MAIN

Inspectors' Log:

Customers' Information:

Street Address: 12958 FERNTOP LN City: CREVE COEUR State / Province: MO Zip / Postal Code: 63141 County: SAINT LOUIS COUNTY

Asset: GIS-1854159 Asset Description: GIS_GRAVITY MAIN, 16P4-0308D:16P4-0309D, Storm, 50 FT, 18 IN, 0 IN, Undetermined, CMP, None, MSD, Circu
Location: SWB-CREVE Location CREVE COEUR CREEK-GRAVITY REACHES
CI: COEUR CREEK- Description:
GR CI Description:

Asset Measurements: 50 Length (FT): 18 Width (IN): 0 Height (IN): 0 Top Elevation (IN):

Sched Start:	
Sched Finish:	
Actual Start:	
Actual Finish:	
Report Date:	
Reported By:	ADAMS, STEVEN P.
Crew ID:	

Site:	CS
Priority:	1 Year
Work Type:	CM
Status:	WAPPR
Failure Class:	GRAVITY MAIN
Problem Code:	
Contact:	314-768-6257

Job Plan:	
Supervisor:	KEAVENY, GERALD J.
Vendor:	
Owner:	NEWPORT, THOMAS
Service:	
GL Account:	1101.06055.51011.00.0000.000000
Classification:	REPLACE SEWER / STORM MAIN



Metropolitan St. Louis
Sewer District
2350 Market Street
St. Louis, MO 63103
Phone: 314 758 6200



MSD Inspectors' Report: 6475123: REPLACE SEWER / STORM MAIN

Inspectors' Log:

Customers' Information:

Street Address: 12958 FERNTOP LN City: CREVE COEUR State / Province: MO Zip / Postal Code: 63141 County: SAINT LOUIS COUNTY

Asset: GIS-14514408 Asset Description: GIS_GRAVITY MAIN, 16P4-0307D:16P4-072D, Storm, 20 FT, 60 IN, Undetermined, CMP, MSD, Circular, Outfall
Location: SWB-CREVE COEUR CREEK- Location CREVE COEUR CREEK-GRAVITY REACHES
CI: COEUR CREEK- Description:
GR CI Description:

Asset Length (FT): 20 Width (IN): 60 Height (IN): Top Elevation (IN):
Measurements: 20

Sched Start:	
Sched Finish:	
Actual Start:	
Actual Finish:	
Report Date:	
Reported By:	ADAMS, STEVEN P.
Crew ID:	

Site:	CS
Priority:	1 Year
Work Type:	CM
Status:	WAPPR
Failure Class:	GRAVITY MAIN
Problem Code:	
Contact:	x2139

Job Plan:	
Supervisor:	KEAVENY, GERALD J.
Vendor:	
Owner:	NEWPORT, THOMAS
Service:	
GL Account:	1101.06011.51011.00.0000.000000
Classification:	REPLACE SEWER / STORM MAIN

June 10, 2021 at 6:32:58 AM CDT

Communication: MSD Work Summary - 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

Disclaimer: This map was prepared by MSD from available information and for its exclusive use. It is not intended to be used or relied upon by others. MSD makes no representation of either the accuracy or the completeness of its contents. Flood

1 inch = 100 feet



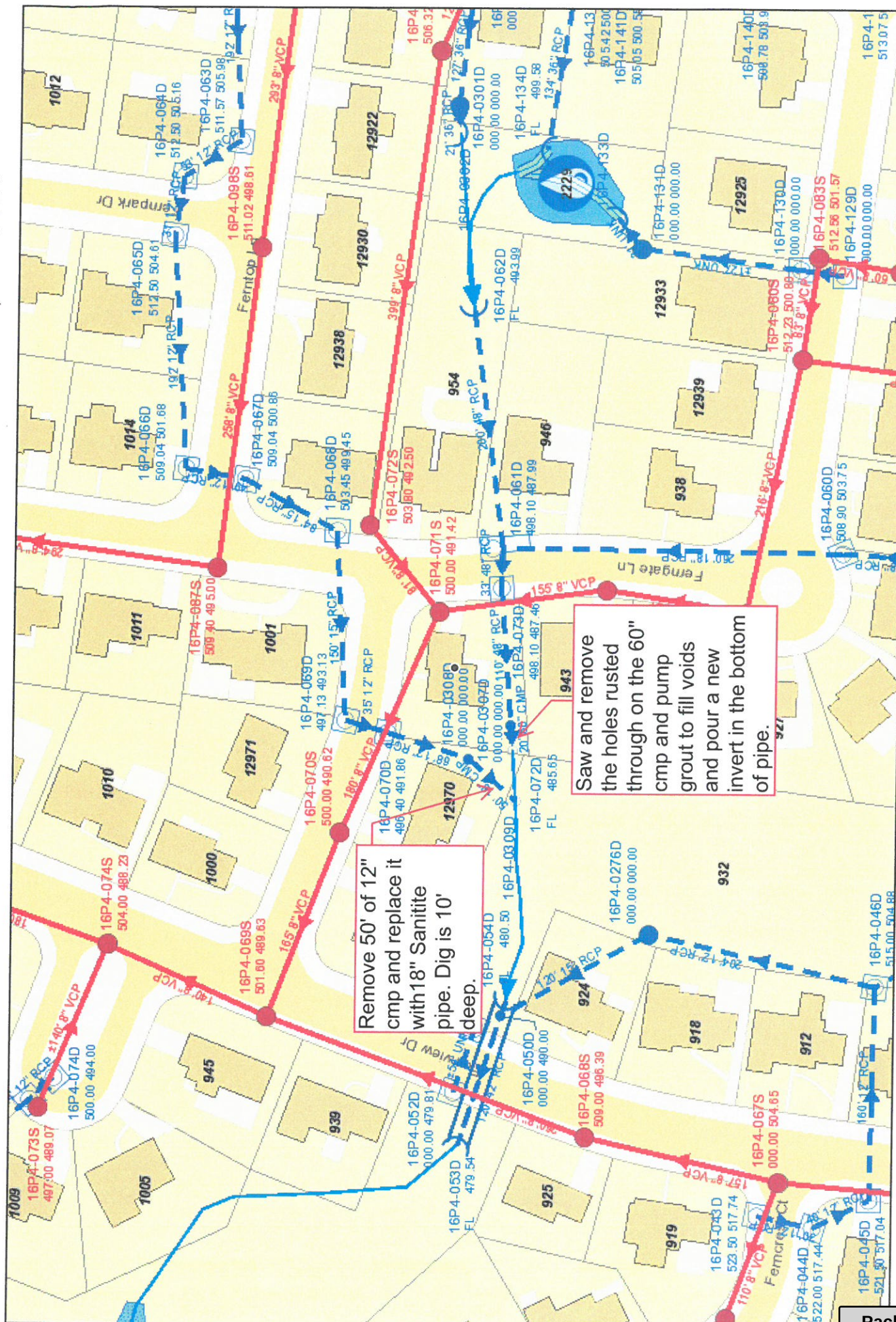
6/10/2021 6:37:58 AM

RIVER 4.0

Communication: MSD Work Summary - 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)



Packet Pg. 22



**METROPOLITAN ST. LOUIS SEWER DISTRICT
SMALL REPAIR PROJECT REQUIREMENTS
May 13, 2021**

All work performed shall be in accordance with the **current version of the "Metropolitan St. Louis Sewer District Standard Construction Specifications for Sewers and Drainage Facilities"**.

The contractor must have a **current Consent Decree (CD) Compliance document, regarding reading the CD and record retention, and certificate of insurance, listing the District as an additional insured** regarding liability, on file with the District.

The contractor or joint venture must have an appropriate **master drain layer's license and any other license** to obtain permits from the District and the municipalities in which work is to be performed.

The contractor will be required to **obtain permits from other agencies** and post any performance bond required by permits. The contractor shall obtain all permits required from St. Louis County prior to performing any work in County jurisdiction and **the contractor must provide a copy of all permits required by St. Louis County prior to payment.**

Contractors are required to **notify homeowners at least one day, but not more than 7 days, before** construction begins. Homeowner contact information can be found on work orders generated by Service Requests.

Contractors are also required to **post an MSD Infrastructure Repair sign at the project site.** 18" x 24" metal sign faces will be provided for the contractor's use. The contractor needs to indicate his contact information on the sign, attach the sign to sign post and install it at the site.

Work is **bid as lump sum and includes restoring all existing connections, up to 4 feet of pipe for every pipe connecting to each structure, removing and replacing fences, installation of temporary fence unless property owner indicates it is not necessary, replacement of pavement and sidewalk, and sodding, in kind, to equal or better condition, for all areas disturbed by the work.**

When sod cannot be obtained, **temporary seeding** will be required at completion of the work, with **overseeding the following Spring.** If the seed does not germinate well, **sod may be required.**

Work should be **started within 2 months of award, and pursued continuously until completed.**

The **Purchase Order shall serve as the contract and the notice to proceed.** All bid documents, and the CD Compliance document for **Fiscal Year 2021** are also a part of the contract. The District shall be an additional insured for the project, on a primary and non-contributory basis. With the PO, the District will furnish a signed project exemption certificate, authorizing purchases of materials to be incorporated into and consumed by this project on a tax-exempt basis, as provided by RSMo 144.062.

Restoration work is **warranted for one year** after acceptance.

Payment will be made after completion and approval of the work. A **certification of payment form** from the contractor must be provided prior to payment.

MBE Utilization reports must be submitted with any request for payment on projects with costs of \$50,000 or greater. Utilization reports are requested on all projects to assist the District in monitoring the program. These forms will be forwarded to the Manager of Diversity Programs.

NOTICE

Prevailing Wage and Living Wage Requirements

All MSD funded construction carries **Prevailing Wage requirements** per RSMo 290.210 – 290.340, and **Living Wage requirements** per MSD Resolution 3116.

The Contractor shall pay at least the prevailing hourly rate of wages for each type of workman needed to execute the contract and also the general prevailing rate for legal holiday and overtime work, all as determined by the Metropolitan St. Louis Sewer District as stated in MSD Wage Order 07-20 and the Metropolitan St. Louis Sewer District Prevailing Wage Rules; or by the Industrial Commission of Missouri, as stated in Annual Wage Order No. 28 Section 096 for St. Louis City and/or Section 100 for St. Louis County; or as determined by General Wage Order MO200001 06/05/2020. The District shall require the Contractor to pay prevailing wage regardless of the amount of the engineer's estimate or the amount of the bid. When there is a difference between the prevailing wage requirements of any of the applicable wage orders referenced above, the higher rate shall apply.

Apprentices shall be permitted to work at less than the predetermined rate for the class or type of work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the United States Department of Labor, Employment and Training Administration, Bureau and Apprenticeship and Training. The allowable ratio of apprenticeship to journeyman on the site of the construction for any class or type of worker shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Payment of wages shall be made pursuant to the state of Missouri "Rules of Department of Labor and Industrial Relations", 8 CSR 30-3.030(2).

Entry-level workers/trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the United States Department of Labor, Employment and Training Administration. The ratio of entry-level workers/trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Payment of wages shall be made pursuant to the state of Missouri "Rules of Department of Labor and Industrial Relations", 8 CSR 30-3.030(3).

Furthermore, in accordance with District Resolution 3116, the Contractor shall pay at least the living wage rate for each type of workman needed to execute the contract that are not covered by the prevailing wage rates referenced above. The applicable living wage rate shall be as determined by the City of St. Louis Compliance Official. The requirements for the applicable prevailing wage overtime and holiday schedules shall apply to the living wage rate.

Before final payment can be made, an affidavit must be filed in proper form and order by the Contractor stating that he/she has fully complied with the prevailing wage law and the living wage resolution.

From: "Steven P. Adams" <sadams@stlmsd.com>
Date: October 8, 2021 at 3:11:04 PM CDT
To: Melissa Inkley <inkley4@gmail.com>
Subject: RE: 12958 Ferntop Lane/MSD Meeting

Melissa,

The outfall downstream of the pipe on your property has a concrete pad and grouted rip rap along the bottom. The bank is at approximately a 45 degree angle and is currently in a stable condition. Typically if new rock is added to a slope, the slope would have to be at a 30 degree angle or less. Riprap will roll down a 45 degree slope, especially if kids are climbing on it.

It appears the erosion and settlement on your property near the 45 degree slope is partially caused by your roof and yard drains discharging at the top of the slope. Last time we met I recommended you extend the piping to the creek to minimize erosion and settlement.

At this time, MSD just has funding to maintain the existing storm sewer pipe. We do not have funding to fix erosion problems and add riprap at outfalls.

I am going to be out of the office next week and will return on October 18.

Thank you,

Steve Adams, PE, CFM
 Senior Civil Engineer
 Metropolitan St. Louis Sewer District
 1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org

From: Melissa Inkley <inkley4@gmail.com>
Sent: Friday, October 8, 2021 2:18 PM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Thanks, Steve. I didn't see adding back the riprap in the documents? Adding back what has long since washed away at the opening of the large pipe due to the sinkholes?

Thanks again,

Melissa Inkley
 314-277-8532

Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

On Oct 8, 2021, at 9:58 AM, Steven P. Adams <sadams@stlmsd.com> wrote:

Melissa,

The bid documents are attached.

Our contractor is going to pump concrete from the street to fix the inside of the pipe.

Thank you,

Steve Adams, PE, CFM

Senior Civil Engineer

Metropolitan St. Louis Sewer District

1033 Grand Glaize Parkway, Valley Park, MO 63088

sadams@stlmsd.com P: 314-768-6257

stlmsd.com - projectclearSTL.org

<image001.png>

From: Melissa Inkley <inkley4@gmail.com>

Sent: Wednesday, October 6, 2021 10:01 PM

To: Steven P. Adams <sadams@stlmsd.com>

Subject: Re: 12958 Ferntop Lane/MSD Meeting

Thanks for the update, I appreciate it. Can we see a copy of the contract, to see what's included? I want to be sure adding the riprap back at the opening of our big pipe is also included in there, and I think we also talked about adding some dirt/gravel or something by there, as well, since so much has sunk in from the sinkholes.

Thanks again,

Melissa Inkley
314-277-8532

On Oct 6, 2021, at 7:42 AM, Steven P. Adams <sadams@stlmsd.com> wrote:

Melissa,

I spoke to MSD's inspector about the repair this morning. He said he spoke to the Contractor about the repair yesterday. The Contractor said he is still waiting for the pipe to come in. There is currently a shortage of pipe due to COVID and the backorder is 8

Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

plus weeks. The Contractor did not know when the pipe would come in, but he said he will get it installed as soon as it does.

Thank you,

Steve Adams, PE, CFM

Senior Civil Engineer
Metropolitan St. Louis Sewer District
1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org
<image001.png>

From: Melissa Inkley <inkley4@gmail.com>
Sent: Tuesday, October 5, 2021 8:25 PM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Hi Steve,

Checking in on the timeframe for this again. Please let me know an update, as we've not seen anyone start work yet. I want to tell our city stormwater committee an update at their meeting next week.

Thanks,

Melissa Inkley
314-277-8532

On Aug 12, 2021, at 9:12 AM, Steven P. Adams <sadams@stlmsd.com> wrote:

Melissa,

MSD awarded a contract to Enterprise Sewer and Drain on 6/17/2021 to replace 50 feet of 18 inch storm sewer on Jim's property and to install a new concrete bottom in the existing 60 inch storm sewer on your property.

The Contractor should begin construction in the near future.

Let me know if you have any other questions.

Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

Thanks,

Steve Adams, PE, CFM

Senior Civil Engineer
Metropolitan St. Louis Sewer District
1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org
<image001.png>

From: Melissa Inkley <inkley4@gmail.com>
Sent: Wednesday, August 11, 2021 5:48 PM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Hi Steve,

I wanted to circle back on this to see where we were on the replacement/correction of those two pipes. I see one area between Jim and I's houses was flagged maybe 6 weeks ago. Do we know a timeframe for when the work would be started, and can you remind me again exactly what they will be doing? Thanks again for the help.

Melissa Inkley
314-277-8532

On Jun 4, 2021, at 3:19 PM, Steven P. Adams <sadams@stlmsd.com> wrote:

No problem.

The contractor will only take down a portion of the wall and reuse the blocks to put it back up. It should be exactly the same as it was before they took it down. We also get a one year warranty from the Contractor so if the wall starts to lean after it is put backup MSD will make them fix it.

We are also going to fix the outfall on your neighbor Jim's property at the same time.

Thank you,

Steve

Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

From: Melissa Inkley <inkley4@gmail.com>
Sent: Friday, June 4, 2021 3:11 PM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Fwd: 12958 Ferntop Lane/MSD Meeting

Thanks, Steve. As long as the contractor fully replaces the wall for whatever parts they have to tear out, and puts it back up where it is now, that sounds like a good plan. We'd like to see a copy of the plan/work as we get closer to the time, if possible. Just keep us posted on a timeframe as you're able. Appreciate the help and work on this!

Melissa Inkley
 314-277-8532

Begin forwarded message:

From: "Steven P. Adams" <sadams@stlmsd.com>
Date: June 4, 2021 at 11:21:10 AM CDT
To: Melissa Inkley <inkley4@gmail.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Melissa,

I created the work order to replace the 60" diameter metal pipe in your backyard. Our contractor will have to dig up the existing pipe and replace it. Our Contractor will most likely have to take down part of your retaining wall and put it back up when the pipe is replaced.

There is currently a shortage on pipe, so it might take the Contractor a while to get the material to do the repair.

Feel free to give me a call if you have any questions.

Thank you,

Steve Adams, PE, CFM
 Senior Civil Engineer
 Metropolitan St. Louis Sewer District
 1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org
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Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

From: Steven P. Adams
Sent: Friday, April 23, 2021 8:16 AM
To: 'Melissa Inkley' <inkley4@gmail.com>
Subject: RE: 12958 Ferntop Lane/MSD Meeting

Melissa,

We are going to get a CCTV video of the storm sewer in Jim's yard. This will let us know how much of that pipe needs replaced. It should be done in the next two or three weeks. Then we will be able to get a repair bid out.

Thank you,

Steve Adams, PE, CFM
 Senior Civil Engineer
 Metropolitan St. Louis Sewer District
 1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org
 <Outlook-MSDPC logo.png>

From: Melissa Inkley <inkley4@gmail.com>
Sent: Monday, April 19, 2021 3:03 PM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Got it, thanks, appreciate it!

Melissa Inkley
 314-277-8532

On Apr 19, 2021, at 10:48 AM, Steven P. Adams <sadams@stlmsd.com> wrote:

Melissa,

The sewer district maintains 3,000 miles of underground storm sewer. We do have crews that use robotic cameras to record the inside of the sewers to try to find defects, but most of the blockages we find are from customer reporting cave-ins or flooding around inlets.

I am going to try to meet with our inspector this week to see what he thinks is the best way to fix the metal pipe.

Communication: MSD-Inkley Updates for 12958 Ferntop Lane (Pipe Repairs - 12958 and 12970 Ferntop Lane)

Hope this helps,

Steve

From: Melissa Inkley <inkley4@gmail.com>
Sent: Monday, April 19, 2021 10:33 AM
To: Steven P. Adams <sadams@stlmsd.com>
Subject: Re: 12958 Ferntop Lane/MSD Meeting

Hi Steve,

Just wanted to say thank you again for coming out to look at the outlet pipes behind our home. We will be on the lookout for MSD coming to correct that metal pipe piece over the next few months. We also appreciate the help and tips on plantings!

One quick question I forgot to ask - how often does MSD check for blockages in pipes? Is there a set schedule for that? I mean for big blockages within the actual pipes, not fallen trees in the open areas. Is there a process for that?

Thanks again,

Melissa Inkley
 314-277-8532

On Apr 16, 2021, at 3:30 PM, Steven P. Adams <sadams@stlmsd.com> wrote:

Melissa,

I will see you at 9:00 on Monday. Let me know if something comes up and you need to change the date or time.

Thank you,

Steve Adams, PE, CFM
 Senior Civil Engineer
 Metropolitan St. Louis Sewer District
 1033 Grand Glaize Parkway, Valley Park, MO 63088
sadams@stlmsd.com P: 314-768-6257
stlmsd.com - projectclearSTL.org
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