

City of Round Rock

Annual Report

Year 4

Oct 2021 – Sept 2022



TXR040253



Mayor
Craig Morgan

Councilmembers
Michelle Ly
Matthew Baker
Frank Ortega
Kristin Stevens
Hilda Montgomery

City Manager
Laurie Hadley

Mayor Pro-Tem
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Stephanie L. Sandre

December 21, 2022

Texas Commission on Environmental Quality
Stormwater Team Leader (MC-148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for City of Round
Rock
TPDES Authorization: TXR040253

Dear Team Leader:

This letter serves to transmit the required annual report for the
Texas Pollutant Discharge Elimination System Small Municipal
Separate Storm Sewer System General Permit, Authorization
Number TXR040253 for the City of Round Rock.

The annual report is for Year 4. The reporting period's beginning
10/01/2021 and ending 09/30/2022.

A separate Notice of Change has not been submitted based on the
fact that changes have not been proposed for the next permit year.

As required by the general permit, a copy of the report has been
mailed to the TCEQ's regional office 11 in Austin Texas.

Sincerely,

Grayson Roberts
Project Manager

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Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number: TXR040253

Reporting Year: 4

Annual Reporting Year Option Selected by MS4: Fiscal Year

Last day of fiscal year: (09/30/2022)

Reporting period beginning date: (month/date/year) 10/01/2021

Reporting period end date: (month/date/year) 09/30/2022

MS4 Operator Level: 3 Name of MS4: City of Round Rock

Contact Name: Grayson Roberts Telephone Number: (512) 671-2867

Mailing Address: 3400 Sunrise Rd Round Rock, TX 78665

E-mail Address: groberts@roundrocktexas.gov

A copy of the annual report was submitted to the TCEQ Region:

Yes, a copy of the annual report was submitted to Region 11.

B. Status of Compliance with the MS4 GP and SWMP

1. Provide information on the status of complying with permit conditions:
(TXR040000 Part IV.B.2)

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	✓		NOI has been submitted to the TCEQ along with updated SWMP.
Permittee is currently in compliance with recordkeeping and reporting requirements.	✓		All records are kept up to date and annual reports have been submitted on time.

Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	✓		Policies are reviewed and updated based on permit requirements.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report	✓		SWMP has been updated and submitted to the TCEQ.

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below to meet this requirement (**see Example 1 in instructions**):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1: Public Education Outreach and Involvement	Public Notice for SWMP Development	Yes, it informs residents of the city's Stormwater Management Plan and MS4 Permit status. Public notice was published September 19, 2022.
1: Public Education Outreach and Involvement	Attitude Survey	Yes, it increases public awareness, provides opportunity for public feedback, and allows us to assess current public knowledge. Attitude Survey was distributed September of 2022.
1: Public Education Outreach and Involvement	Public Outreach and Education Campaign Development	Yes, it enhances community awareness of the City's high priority issues such as the Big 3 (bacteria, floatables, and fertilizer).
1: Public Education Outreach and Involvement	Pet Waste Education Campaign – Bacteria Impairment	Yes, it provides opportunities for residents to properly dispose of pet waste while advertising the need to pet waste disposal. 74 dog waste stations were maintained.
1: Public Education Outreach and Involvement	Cease the Grease – Bacteria Impairment	Yes, it educates customers on the proper disposal of fats, oils, and grease. Educational materials were distributed to 354 businesses.

1: Public Education Outreach and Involvement	Event Participation	Yes, The City of Round Rock sponsored or co-sponsored 13 environmental events this year.
1: Public Education Outreach and Involvement	Inlet Markers	Yes, 156 inlet markers were installed with QR codes linking to our educational material.
1: Public Education Outreach and Involvement	Household Hazardous Waste Collection	Yes, 2,099 residents participated in household hazardous waste events.
1: Public Education Outreach and Involvement	Brush Recycling and Mulch Program	Yes, 1,266 residents participated in the curbside brush recycling program. 20,949 cubic yards of brush was recycled.
2: Illicit Discharge, Detection, and Elimination	Illicit Discharge Ordinance Review	Yes, the illicit discharge ordinance allows the city to address instances of discharged pollutants.
2: Illicit Discharge, Detection, and Elimination	IDDE Procedures	Yes, the city documents and revises its procedures for responding to illicit discharges and spills to ensure effectiveness.
2: Illicit Discharge, Detection, and Elimination	IDDE – Reporting Hotline	Yes, 16 complaints/reports were received, and 14 of those were resolved.
2: Illicit Discharge, Detection, and Elimination	Staff Training (IDDE)	Yes, 1 training session was conducted, with a 2 nd training session scheduled for the beginning of the next fiscal year.

2: Illicit Discharge, Detection, and Elimination	MS4 Mapping	Yes, all new, altered, or newly discovered storm drain features were updated on the MS4 map.
2: Illicit Discharge, Detection, and Elimination	Gilleland Sewer Leak Detection - TMDL	Yes, City crews inspected 0 feet of wastewater lines as they were not in this year's inspection rotation.
2: Illicit Discharge, Detection, and Elimination	Edwards Aquifer Recharge Zone Leak Detection – Bacteria Impairment	Yes, City crews inspected 194,727 feet of wastewater lines.
2: Illicit Discharge, Detection, and Elimination	Grease Surcharge Program – TMDL/Bacteria Impairment	Yes, 354 facilities were monitored.
2: Illicit Discharge, Detection, and Elimination	Household Hazardous Waste Collection	Yes, at least 188.1 tons of waste were collected at HHW events. 325.82 tons of material was recycled.
2: Illicit Discharge, Detection, and Elimination	Brush Recycling and Mulch Program	Yes, 20,949 cubic yards of brush from residents were recycled.
2: Illicit Discharge, Detection, and Elimination	Oil Recycling Stations	Yes, 15,462 gallons of oil were collected and recycled.

2: Illicit Discharge, Detection, and Elimination	Recycling	Yes, the City's drop-off recycling center processed 188.1 tons of paper, metal, and plastic.
2: Illicit Discharge, Detection, and Elimination	Dry Weather Field Screening	Yes, 5 data points were collected and recorded from each of the six creek monitoring sties.
3: Construction Site Stormwater Runoff Control	Construction Site Complaint Hotline	Yes, 1 construction site complaint was resolved.
3: Construction Site Stormwater Runoff Control	Plan Review and Site Inventory – Development	Yes, 72 development projects were reviewed and permitted.
3: Construction Site Stormwater Runoff Control	Construction Site Inspection – Development	Yes, 72 active development projects were inspected.
3: Construction Site Stormwater Runoff Control	Staff Training – Development	Yes, though no training sessions were required this year.
3: Construction Site Stormwater Runoff Control	Plan Review and Site Inventory – Capital Improvement Program	Yes, 16 CIP projects were active this year.

3: Construction Site Stormwater Runoff Control	Construction Site Inspection – Capital Improvement Program	Yes, 16 CIP construction sites were inspected.
3: Construction Site Stormwater Runoff Control	Staff Training – CIP Staff	Yes, though no training sessions were required this year.
4: Post Construction Stormwater Management in New and Redevelopment	Permanent BMPs Plan Review – CIP	Yes, plans for 16 CIP projects were reviewed.
4: Post Construction Stormwater Management in New and Redevelopment	Permanent BMPs Plan Review – Development and Redevelopment	Yes, 72 development and redevelopment projects were reviewed.
4: Post Construction Stormwater Management in New and Redevelopment	Post Construction Site Inspection	Yes, inspected 72 development and redevelopment projects.
4: Post Construction Stormwater Management in New and Redevelopment	Long Term O&M – Permanent BMPs Permittee Owned	Yes, 0 gallons of vegetation, 672 gallons of sediment, and 21 gallons of floatables were removed from City-owned BMPs.
4: Post Construction Stormwater Management in New and Redevelopment	Long Term O&M and Enforcement – Permanent BMPs Privately Owned	No, reevaluating private BMP inspections and training staff on inspection procedures.

5: Good Housekeeping	Permittee Owned Facility Map and Inventory	Yes, all new, altered, or newly discovered storm drain features were updated on the MS4 map.
5: Good Housekeeping	Contractor Requirements and Oversight	Yes, 104 contracts were approved this year.
5: Good Housekeeping	Operations and Maintenance Activity SOPs	Yes, a review on procedures for high-risk maintenance activities was conducted.
5: Good Housekeeping	High Priority Facilities SOPs	Yes, inspections were conducted for each high priority facility.
5: Good Housekeeping	Staff Training Good Housekeeping	Yes, 1 training session was conducted, with a 2 nd training session scheduled for the beginning of the next fiscal year.
5: Good Housekeeping	Street Sweeping	Yes, 707 curb miles were swept.
5: Good Housekeeping	Structural Control Maintenance	Yes, 0 gallons of vegetation, 672 gallons of sediment, and 21 gallons of floatables were removed from City-owned BMPs.

3. Describe progress towards achieving the goal of reducing the discharge of pollutants to the MEP. If no progress was made or the BMP did not result in a reduction in pollutants, provide an explanation. Use the table below to meet this requirement (**see Example 2 in instructions**):

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1	Public Notice for SWMP Development	Newspaper article, social media posts	1	Notice	No. But it does inform residents of the city's MS4 Permit status. Notice was published September 19, 2022.
1	Attitude Survey	Survey	1	Survey distributed	No. However, it promotes stormwater awareness. It also provides an opportunity for public feedback to focus efforts for future education campaigns. Updating survey this year.
1	Public Outreach and Education Campaign Development	Education campaign	N/A	Education materials created	No. However, it informs residents of the priority issues surrounding stormwater in the city.
1	Pet Waste Education Campaign – Bacteria Impairment	City parks	74	Pet waste stations	Yes. Many of the City parks include waterways, which drain to Brushy Creek. Providing waste stations keeps pet waste out of these waterways.

1	Cease the Grease – Bacteria Impairment	Businesses receiving educational materials	354	Educational materials distributed	No. However, it educates wastewater customers on proper disposal practices of grease/oil.
1	Event Participation	Public events	13	Events	No. However, these events are used to educate residents of stormwater information and best practices.
1	Inlet Markers	GIS data	156	Inlet markers	No. However, this BMP does promote citizen's awareness of the storm drain system. It also enables them to be more conscientious of potential pollutants around inlets.
1	Household Hazardous Waste Collection	HHW events	2,099	Participants	Yes. Collection events encourage proper disposal, keep materials from entering waterways, and get residents involved in water quality efforts.
1	Brush Recycling and Mulch Program	Brush recycled	20,949	Cubic yards of brush	Yes. Brush recycling encourages the proper disposal of tree and shrubbery waste keeping the materials from entering the waterways.
2	Illicit Discharge Ordinance Review	Ordinance	1	Review conducted	No. However, reviewing the ordinance to ensure compliance with TCEQ requirements makes for a more effective Stormwater Program. No goals this year.

2	IDDE Procedures	Spill response	N/A	Review conducted	No. However, reviewing spill response procedures can lead to better response time and effectiveness in addressing spills. No goals this year.
2	IDDE – Reporting Hotline	Report documentation	14	Resolved investigations	Yes. By responding and investigating illicit discharges, we reduce the amount of pollution in our waterways.
2	Staff Training (IDDE)	Sign-in sheets	1	Training sessions	No. However, staff members are training to identify potential cases of illicit discharge and respond to spills.
2	Gilleland Sewer Leak Detection - TMDL	CCTV Footage	0	Feet of wastewater lines	Yes. By identifying and eliminating any sanitary sewer leaks, we reduce the potential for E. coli bacteria discharge.
2	Edwards Aquifer Recharge Zone Leak Detection – Bacteria Impairment	CCTV Footage	194,727	Feet of wastewater lines	Yes. By identifying and eliminating any sanitary sewer leaks, we reduce the potential for E. coli bacteria discharge.
2	Grease Surcharge Program – TMDL/Bacteria Impairment	Sampling	354	Facilities	Yes. The City monitors all non-residential user's wastewater discharges. This program provides a financial incentive to use best practices to prevent overflows.
2	Household Hazardous Waste Collection	Waste collected	188.1	Tons of waste	Yes. The City provides proper disposal opportunities for residents, keeping waste from entering the waterways.

2	Household Hazardous Waste Collection	Material recycled	325.82	Tons of material	Yes. The City recycles the waste provided by residents, keeping waste from entering the waterways.
2	Brush Recycling and Mulch Program	Brush recycled	20,949	Cubic yards of brush	Yes. Brush recycling encourages the proper disposal of tree and shrubbery waste keeping the materials from entering the waterways.
2	Oil Recycling Stations	Oil collected	15,462	Gallons of oil	Yes. The City collects oil from residents, keeping waste from entering the waterways.
2	Recycling	Material processed	188.1	Tons of paper, metal, and plastic	Yes. The City provides a drop off recycling center for residents, keeping the waste from entering the waterways.
2	Recycling	Material recycled	325.82	Tons of material	Yes. The City offers curbside recycling for residents, keeping the waste from entering the waterways.
2	Dry Weather Field Screening	Monthly creek monitoring data	5	Data points collected	Yes. Water quality can be tested by monitoring the creeks for pH, DO, temperature, conductivity, and bacteria levels.
2	Dry Weather Field Screening	Creek monitoring locations	6	Sites	Yes. Illicit discharges can be detected by using key sites along Brushy Creek and Lake Creek.

3	Construction Site Complaint Hotline	Complaint log	1	Resolved investigations	Yes. By responding to complaints about construction sites with potential pollutants, we can prevent illicit discharges.
3	Plan Review and Site Inventory – Development	Plans	72	Projects	No. However, reviewing projects can ensure designs are compliant with CGP, the EAR, and city ordinances.
3	Construction Site Inspection – Development	Plans	72	Projects	Yes. Inspecting projects for compliance prevents illicit discharges.
3	Staff Training – Development	Sign-in sheets	N/A	Training sessions	Yes. Project managers are familiar with stormwater permitting requirements.
3	Plan Review and Site Inventory – Capital Improvement Program	Plans	16	CIP projects	Yes. Reviewing CIP projects to ensure designs are compliant with the CGP, the EAR, and City ordinances.
3	Construction Site Inspection – Capital Improvement Program	Plans	16	CIP projects	Yes. Inspecting CIP projects for compliance prevents illicit discharges.
3	Staff Training – CIP Staff	Sign-in sheets	N/A	Training sessions	Yes. Staff is informed on stormwater permitting requirements for CIP projects.
4	Permanent BMPs Plan Review – CIP	Plans	16	CIP projects	Yes. Reviewing CIP projects to ensure designs are compliant with City ordinances and policies as updated.

4	Permanent BMPs Plan Review – Development and Redevelopment	Plans	72	Projects	No. However, reviewing projects can ensure designs are compliant with City ordinances and policies as updated by the current MS4 General Permit.
4	Post Construction Site Inspection	Plans	72	Development projects	Yes. Inspecting permanent BMPs ensures compliance with plans, City ordinances, and practices.
4	Long Term O&M – Permanent BMPs Permittee Owned	GIS data	0	Gallons of vegetation	Yes. Maintaining City-owned water quality and detention facilities reduces the release of pollutants to the MS4.
4	Long Term O&M – Permanent BMPs Permittee Owned	GIS data	672	Gallons of sediment	Yes. Maintaining City-owned water quality and detention facilities reduces the release of pollutants to the MS4.
4	Long Term O&M – Permanent BMPs Permittee Owned	GIS data	21	Gallons of floatables	Yes. Maintaining City-owned water quality and detention facilities reduces the release of pollutants to the MS4.
4	Long Term O&M and Enforcement – Permanent BMPs Privately Owned	GIS data	N/A	Identified privately owned BMPs	No. However, upcoming inspections will ensure BMPs are functioning as designed. Leading to reduced pollutants.

5	Contractor Requirements and Oversight	City Council agenda	104	Approved contracts	No. However, ensuring all contractors perform maintenance activities using appropriate control measures and SOPs to minimize the release of pollutants to the MS4.
5	Operations and Maintenance Activity SOPs	Inspections	1	Annual review conducted	No. However, reviewing the procedures for maintenance activities can prevent polluting events.
5	High Priority Facilities SOPs	Inspections	1	Annual review conducted	No. However reviewing SOPs for high-risk facilities can prevent polluting events.
5	Staff Training Good Housekeeping	Sign-in sheets	1	Training sessions	Yes. Staff members are trained on good housekeeping measures to prevent stormwater pollution.
5	Street Sweeping	GIS data	707	Curb miles	Yes. Regular street sweeping of public streets and high priority facilities minimize the release of pollutants from roadways and parking lots to the MS4.
5	Structural Control Maintenance	GIS data	0	Gallons of vegetation	Yes. Inlet cleaning and permanent BMP maintenance reduces the level of pollutants discharged to the MS4.
5	Structural Control Maintenance	GIS data	672	Gallons of sediment	Yes. Inlet cleaning and permanent BMP maintenance reduces the level of pollutants discharged to the MS4.

5	Structural Control Maintenance	GIS data	21	Gallons of floatables	Yes. Inlet cleaning and permanent BMP maintenance reduces the level of pollutants discharged to the MS4.
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4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (**see Example 3 in instructions**):

MCM	Measurable Goal(s)	Explain progress toward goal or how goal was achieved.
1	Publish public notice for SWMP.	Met goal. – Public notice published September 19, 2022.
1	Conduct attitude survey for residents.	Met goal. – Attitude survey was distributed September 2022.
1	Determine high priority issues for stormwater education.	Met goal. – Educational material distributed and posted on stormwater webpage.
1	Maintain 100 percent of pet waste stations in City parks.	Met goal – 74 pet waste station were maintained in City parks.
1	Distribute educational materials to 100 percent of wastewater customers incurring a surcharge.	Met goal – distributed educational materials to 354 of 354 customers incurring a surcharge.
1	Sponsor or co-sponsor 4 events.	Met goal – sponsored or co-sponsored 13 events.
1	Install 150 inlet markers for the storm drain system.	Met goal – 156 inlet markers were installed. New QR code markers were also installed.
1	Have an average of 300 residents participate in each Household Hazardous Waste event.	Did not meet goal – An average of 174 residents participated in each HHW event.
1	Have at least 1,500 participants in the curbside brush recycling program.	Did not meet goal – 1,266 residents participated.
2	Review existing illicit discharge ordinance.	Met goal – Illicit discharge ordinance reviewed.
2	Review procedures for illicit discharges and spills.	N/A – No goals for this year.

2	Investigate and resolve 80 percent of citizen complaints and staff reports regarding illicit discharges.	Met goal – 16 investigations were conducted this year, and 14 of those were resolved.
2	Host 2 training sessions covering illicit discharges.	Did not meet goal – 1 training session was conducted, and one has been scheduled for the next fiscal year.
2	Update 100 percent of new storm drain features on the MS4 map.	Met goal – 100 percent of new, altered, and newly discovered features were updated.
2	Inspect wastewater lines in the Gilleland Creek drainage basin.	N/A – No goals this year. Basin not in inspection rotation.
2	Inspect wastewater lines in the Edwards Aquifer Recharge Zone.	Met goal – 194,727 feet of wastewater lines were inspected.
2	Monitor wastewater discharges for 100 percent of non-residential users.	Met goal – 354 of 354 facilities were monitored this year.
2	Recycle 70 percent of collected materials from Household Hazardous Waste from residents.	Met goal – 188.1 tons of material was collected, and 325.82 was recycled.
2	Recycle 90 percent of brush collected from residents.	Met goal – 20,949 cubic yards of brush were collected, and 20,949 cubic yards were recycled.
2	Recycle 90 percent of used oil collected from residents.	Met goal – 15,462 gallons of oil were collected, and 15,462 gallons were recycled.
2	Recycle 90 percent of material from residents at the drop-off recycling center.	Met goal – 188.1 tons of paper, metal, and plastic were collected and recycled.
2	Collect dry weather field screening data on a monthly basis.	Did not meet goal – 5 data points were taken.
3	Resolve 80 percent of construction site complaints received.	Met goal – 1 construction site complaint was received, and of that 1 was resolved.
3	Review plans and inventory for 100 percent of projects.	Met goal – 72 projects were received and 72 were reviewed.

3	Inspect 100 percent of construction sites with construction general permits.	Met goal – 72 projects were permitted, and 72 were inspected.
3	Host 1 training session covering stormwater permitting requirements for project managers.	N/A – no goals for this year.
3	Review 100 percent of CIP projects to ensure designs are compliant with the CGP, the EAR, and City ordinances.	Met goal – 16 of the 16 CIP projects were reviewed.
3	Inspect 100 percent of CIP projects for CGP compliance.	Met goal – 16 of the 16 CIP projects were inspected.
3	Host 1 training session for project managers on stormwater requirements for CIP projects.	N/A – no goals for this year.
4	Review 100 percent of CIP projects to ensure designs are compliant with City ordinances and policies as updated.	Met goal – 16 of the 16 CIP projects were reviewed.
4	Review 100 percent of projects to ensure designs are compliant with City ordinances.	Met goal – 72 of the 72 development and redevelopment projects were reviewed.
4	Inspect and document 100 percent of projects with permanent BMPs for compliance with plans, City ordinances, and practices.	Met goal – inspected 72 of the 72 development and redevelopment projects.
4	Perform maintenance on 100 percent of inspected City-owned water quality and detention facilities.	Met goal – removed 0 gallons of vegetation, 672 gallons of sediment, and 21 gallons of floatables for inspected BMPs.
4	Collect information on 80 percent of identified privately owned BMPs in the city.	Did not meet goal – BMP inspections will begin next year after training inspectors.
5	Update 100 percent of any new, altered, or newly discovered storm drain features on the MS4 map.	Met goal - 100 percent of new, altered, and newly discovered features were updated.

5	Ensure 100 percent of city contractors sign or renew contracts with language requiring control measures and SOPs to minimize pollutants.	Met goal – 104 of 104 contracts were approved.
5	Conduct review once a year of procedures for high-risk maintenance activities.	Met goal – A review on procedures for high-risk maintenance activities was conducted.
5	Perform 1 annual inspection of high-risk facilities.	Met goal – annual inspection performed for facilities.
5	Host 2 training sessions for staff on good housekeeping measures for stormwater.	Did not meet goal – 1 training session was conducted. An additional session is scheduled for next year.
5	Sweep 100 percent of scheduled street maintenance locations.	Met goal – 707 of the 707 scheduled curb miles were swept.
5	Perform maintenance on 100 percent of city owned permanent BMPs at least once per year.	Met goal – removed 0 gallons of vegetation, 672 gallons of sediment, and 21 gallons of floatables from 100 percent of inspected city owned BMPs.

C. Stormwater Data Summary

In the effort of reducing the discharge of pollutants into the MS4, the City of Round Rock cleans inlets of debris. The city collected 0 gallons of vegetation, 672 gallons of sediment, and 21 gallons of floatables from inlets. The city also performed street sweeping of 707 curb miles this year. Wastewater lines are inspected to prevent leaks and overflows. This year, 194,727 feet of wastewater lines were inspected, and 354 non-residential facilities were monitored for wastewater discharges. These practices contribute toward the reduction of pollutant discharge, as well as detail the success of the SWMP.

D. Impaired Waterbodies

1. Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). List any newly-identified impaired waters below by including the name of the water body and the cause of impairment.

There have been no newly-identified impaired waters.

2. If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern.

Most of the City (98%) drains into Segments 1244_03 and 1244_04 in Brushy Creek in the *2006 Texas Water Quality Inventory and 303(d) List*. Data the TCEQ analyzed from the assessment period from 1999-2004 showed slightly higher concentrations of E. coli and fecal coliform bacteria. Since 2004, E. coli bacteria levels in Brushy Creek have remained relatively stable (under 206 colonies/100ml) despite the City's rapid urbanization.

Selected Bacteria Impairment BMPs

As required by the TPDES General Permit, the City has selected the following BMPs to specifically target bacteria loading reductions. Water quality sampling is not included in the City's SWMP.

Sanitary Sewer Systems

Overflows from sanitary collection systems are infrequent, but when they occur, they can be a significant source of E. coli. bacteria. Aging infrastructure in need of repair can also contribute to bacteria loadings. The City routinely inspects and repairs the sanitary sewer system in our most sensitive areas which are over the Edwards Aquifer. Other areas of the cities are inspected and repaired as necessary.

MCM #2 Illicit Discharge Detection and Elimination

EARZ Leak Detection-Bacteria Impairment

Identify and eliminate any sanitary sewer leaks within the most sensitive areas (EARZ) to reduce the potential for bacteria discharge. Sanitary sewer lines within the EARZ will be evaluated every 5 years.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Continue the annual sanitary sewer leak determination and elimination program. City crews inspected 194,727 feet of wastewater lines.

On-Site Sewage Facilities

On-Site Sewage Facilities (OSSFs) can be potential source of *E. coli*. Bacteria. There are very few OSSF's within the City because population growth primarily began in the mid 1970's and new users are required to connect to the City's wastewater collection system. The WCCHD (Williamson County and Cities Health District) is the designated agent of the TCEQ overseeing OSSFs in our area. The City's role in monitoring these facilities is limited to enforcement of the Illicit Discharge ordinance. In the event the City receives a complaint or observes a problem with an OSSF, staff will coordinate with the WCCHD.

Permit Year 4 Oct 2021-Sept 2022	No OSSF cases were referred during permit year 4.
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Illicit Discharges and Dumping

The public can be our greatest ally in preventing illicit discharges, including sanitary sewer overflows, which can contribute to increased *E.coli*. Bacteria levels in the City's waterways. Educating the public on the proper disposal of fats, oils, and grease can reduce the potential for overflows. Providing a financial incentive to businesses can assist in bringing about amendments to long held company policies.

MCM #1 Public Education Outreach and Involvement

Cease the Grease-Bacteria Impairment

A Public Education Outreach and Involvement campaign will be developed and implemented to reduce any bacteria loading from sanitary overflows. Educating customers on the proper disposal of fats, oils and grease can lead to behavioral changes and eliminate one of the greatest causes of residential sewer backups.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Distribute educational materials to 100 percent of wastewater customers incurring a surcharge. Educational material was distributed to 354 of the 354 customers incurring a surcharge.

MCM #2 Illicit Discharge Detection and Elimination

Grease Surcharge Program-TMDL/Bacteria Impairment

Continue inspections, education, monitoring and enforcement targeted at reducing the level of fats, oils, and grease that enter the City's sanitary sewer system to minimize E.coli bacteria levels in area waterways from sanitary overflows. The City monitors all non-residential users' wastewater discharges. Users whose wastewater exceeds standards receive a surcharge. Educational material is available from the City on how to reduce these levels and reduce their fee. This program provides a financial incentive to use best practices to prevent overflows.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Monitor wastewater discharge for 100 percent of wastewater customers. 354 facilities were monitored in PY03.

Animal Sources

Animals can be potential source of *E.coli*. Bacteria. From March through November of each year, the City is home to a population of Mexican free-tailed bats who reside under the TXDOT operated IH35 bridge at McNeil Road. Other species native to the Round Rock area are feral hogs, ducks, possums, raccoons, turtles, etc.

There are no zoos within the City and there is minimal agricultural activity. Household pets are present in numbers consistent with a primarily urban landscape. During the previous permit term, pet waste stations were installed throughout City Parks.

MCM #1 Public Education Outreach and Involvement

Pet Waste Education Campaign-Bacteria Impairment

Many of the City parks include waterways, which drain to Brushy Creek. A public education campaign on pet waste will be developed and implemented to reduce any bacteria loading from pet waste.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Maintain 100 percent of city-owned pet waste stations. 74 pet waste stations were maintained.

3. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL.

Selected TMDL BMP’s

As required by the TPDES General Permit, the City has selected the following BMPs to specifically target bacteria loading reductions.

Sanitary Sewer Systems

Overflows from sanitary collection systems are infrequent, but when they occur, they can be a significant source of E.coli Bacteria. Aging infrastructure in need of repair can also contribute to bacteria loadings. Although not a component of the I-Plan, the City will proactively inspect and make any necessary repairs to the sanitary sewer in the Gilleland watershed this permit term.

MCM #2 Illicit Discharge Detection and Elimination

Gilleland Sewer Leak Detection-TMDL

Identify and eliminate any sanitary sewer leaks within the Gilleland Creek drainage basin to reduce the potential for E.coli bacteria discharge.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4	Complete any remaining repairs.
Oct 2021-Sept 2022	No additional repairs required. 0 feet of wastewater lines in were inspected. Gilleland Creek drainage basin was not on inspection rotation this year.

EARZ Leak Detection-Bacteria Impairment

Identify and eliminate any sanitary sewer leaks within the most sensitive areas (EARZ) to reduce the potential for bacteria discharge. Sanitary sewer lines within the EARZ will be evaluated every 5 years.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Continue the annual sanitary sewer leak determination and elimination program. City crews inspected 194,727 feet of wastewater lines.

On-Site Sewage Facilities

On-Site Sewage Facilities (OSSFs) can be potential source of *E.coli* Bacteria. There are very few OSSF's within the City because population growth primarily began in the mid 1970's and new users are required to connect to the City's wastewater collection system. The Transportation and Natural Resources department of Travis County and the City of Austin are the designated agents of the TCEQ overseeing OSSFs in the Gilleland Creek Watershed. As part of the I-Plan, Travis County has held several workshops to educate owners on the proper maintenance and inspection of OSSFs. The City's role in monitoring these facilities is limited to enforcement of the Illicit Discharge ordinance. In the event the City receives a complaint or observes a problem with an OSSF, staff will coordinate with Travis County.

Permit Year 4 Oct 2021-Sept 2022	No OSSF cases were referred during permit year 4.
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Illicit Discharges and Dumping

The public can be our greatest ally in preventing illicit discharges, including sanitary sewer overflows, which can contribute to increased bacteria levels in the City's waterways. Educating the public on the proper disposal of fats, oils and grease (FOG) can reduce the potential for overflows. Providing a financial incentive to businesses can assist in bringing about amendments to long held company policies.

MCM #1 Public Education Outreach and Involvement

Cease the Grease-Bacteria Impairment

A Public Education Outreach and Involvement campaign will be developed and implemented to reduce any bacteria loading from sanitary overflows. Educating customers on the proper disposal of fats, oils and grease can lead to behavioral changes and eliminate one of the greatest causes of residential sewer backups.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Distribute educational materials to 100 percent of wastewater customers incurring a surcharge. Educational material was distributed to 354 of the 354 customers incurring a surcharge.

MCM #2 Illicit Discharge Detection and Elimination

Grease Surcharge Program-TMDL/Bacteria Impairment

Continue inspections, education, monitoring and enforcement targeted at reducing the level of fats, oils, and grease that enter the City's sanitary sewer system to minimize E.coli bacteria levels in area waterways from sanitary overflows. The City monitors all non-residential users' wastewater discharges. Users whose wastewater exceeds standards receive a surcharge. Educational material is available from the City on how to reduce these levels and reduce their fee. This program provides a financial incentive to use best practices to prevent overflows.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4 Oct 2021-Sept 2022	Monitor wastewater discharge for 100 percent of wastewater customers. 354 facilities were monitored.

Animal Sources

Animals can be potential source of *E.coli*. Bacteria. Other species native to the Round Rock area are feral hogs, ducks, possums, raccoons, turtles, etc.

There are no zoos within the City and there is minimal agricultural activity. Household pets are present in numbers consistent with a primarily urban landscape. One of the components of the I-Plan targets pet waste education and reduction.

MCM #1 Public Education Outreach and Involvement

Pet Waste Education Campaign-Bacteria Impairment

Many of the City parks include waterways, which drain to Brushy Creek. A public education campaign on pet waste will be developed and implemented to reduce any bacteria loading from pet waste.

BMP Effectiveness: Effective. See BMP description above for appropriateness.

Annual Goals	
Permit Year 4	Maintain 100 percent of city-owned pet waste stations.
Oct 2021-Sept 2022	74 pet waste stations were maintained.

4. Report the benchmark identified by the MS4 and assessment activities:

Waste Load Allocations for Gilleland Creek – Only point sources were allotted an individual waste load allocation (WLA) in the I-Plan; thus, the City is part of an aggregate WLA. The small drainage area in Round Rock that drains to the Gilleland watershed is above the headwaters. The City and other TMDL partners recently updated the I-Plan in May of 2021.

5. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark:

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
N/A	I-Plan	Participating in updating the I-Plan with other TMDL partners.

6. If applicable, report on focused BMPs to address impairment for bacteria:

Description of bacteria-focused BMP	Comments/Discussion
N/A	See number two

7. Assess the progress to determine BMP's effectiveness in achieving the benchmark.

Benchmark Indicator	Description/Comments
N/A	See number four

E. Stormwater Activities

Describe activities planned for the next reporting year:

BMP activity goals will be continued with changes made as required by the new permit.

F. SWMP Modifications

1. The SWMP and MCM implementation procedures are reviewed each year.

Yes No

2. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

Yes No

If "Yes," report on changes made to measurable goals and BMPs:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
N/A	N/A	N/A

Note: If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible, and why the replacement BMP is expected to achieve the goals of the original BMP.

3. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land, etc.).

G. Additional BMPs for TMDLs and I-Plans

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

No additional BMPs are recommended at this time. The SWMP already includes BMPs to address bacteria impairments and considers the Gilleland Creek I-Plan.

H. Additional Information

1. Is the permittee relying on another entity to satisfy any permit obligations?

Yes No

If "Yes," provide the name(s) of other entities and an explanation of their responsibilities (add more spaces or pages if needed).

2.a. Is the permittee part of a group sharing a SWMP with other entities?

Yes No

2.b. If "yes," is this a system-wide annual report including information for all permittees?

Yes No

I. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Large and Small Site Notices submitted by construction site operators):

72

2a. Does the permittee utilize the optional seventh MCM related to construction?

Yes No

2b. If "yes," then provide the following information for this permit year:

The number of municipal construction activities authorized under this general permit	
The total number of acres disturbed for municipal construction projects	

Note: Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (printed): Michael Thane Title: Utilities and Environmental Services Director

Signature:  Date: December 21, 2022

Name of MS4 City of Round Rock

For supporting documents contact:

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