

New Mexico Department of Transportation DISTRICT 5 – Santa Fe

FY 2020 MS4 Annual Report

Reporting Period: July 1, 2019 – June 30, 2020



Prepared by:

BOHANNAN HUSTON, INC.
7500 JEFFERSON STREET NE
ALBUQUERQUE, NM 87109

Bohannan  Huston

Engineering

Spatial Data

Advanced Technologies

Annual Report Format



National Pollutant Discharge Elimination System Stormwater Program MS4 Annual Report Format



Check box if you are submitting an individual Annual Report with one or more cooperative program elements.

Check box if you are submitting an individual Annual Report with individual program elements only.

Check box if this is a new name, address, etc.

1. MS4(s) Information

New Mexico Department of Transportation - District 5 - Santa Fe UA

Name of MS4

Paul Brasher District 5 Engineer

Name of Contact Person (First) (Last) (Title)

(505) 469-2194 Paul.Brasher@state.nm.us

Telephone (including area code) E-mail

Po Box 4127

Mailing Address

Santa Fe NM 87505

City State ZIP code

What size population does your MS4(s) serve? 89,284 NPDES number NMR04S005

What is the reporting period for this report? (mm/dd/yyyy) From Jul 1, 2019 to Jun 30, 2020

2. Water Quality Priorities

A. Does your MS4(s) discharge to waters listed as impaired on a state 303(d) list? Yes No

B. If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each, and whether the TMDL assigns a wasteload allocation to your MS4(s). Use a new line for each impairment, and attach additional pages as necessary.

Impaired Water	Impairment	Approved TMDL	TMDL assigns WLA to MS4
NM-2110_00 Santa Fe River (G)	Nutrients	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NM-2110_00 Santa Fe River (G)	E. coli	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NM-9000.A_061 Santa Fe River (G)	E. coli	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NM-9000.A_061 Santa Fe River (G)	Aluminum, total recoverable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

2. B. Continued

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

C. What specific sources contributing to the impairment(s) are you targeting in your stormwater program?

NMDOT maintenance activities target collection, removal, and disposal of floatables, roadside litter, and sediment. NMDOT compliance with CGP requirements targets sedimentation concerns within the watershed.

D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)? Yes No

E. Are you implementing additional specific provisions to ensure their continued integrity? Yes No

3. Public Education and Public Participation

A. Is your public education program targeting specific pollutants and sources of those pollutants? Yes No

B. If yes, what are the specific sources and/or pollutants addressed by your public education program?

NMDOT brochures, educational displays, and outreach programs address litter, household hazardous waste, illicit discharges, pet waste, and general stormwater quality awareness.

C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.

NMDOT's Adopt-a-highway litter removal program had 89 volunteers and removed an estimated 3.5 tons of litter and debris from NMDOT roadways within District 5 during this reporting period.

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? Yes No

4. Construction

A. Do you have an ordinance or other regulatory mechanism stipulating:

Erosion and sediment control requirements? Yes No

Other construction waste control requirements? Yes No

Requirement to submit construction plans for review? Yes No

MS4 enforcement authority? Yes No

B. Do you have written procedures for:

Reviewing construction plans? Yes No

Performing inspections? Yes No

Responding to violations? Yes No

C. Identify the number of active construction sites \geq 1 acre in operation in your jurisdiction at any time during the reporting period.

D. How many of the sites identified in 4.C did you inspect during this reporting period?

E. Describe, on average, the frequency with which your program conducts construction site inspections.

All projects with NMDOT right-of-way are inspected per the Construction General Permit (CGP) requirements.

F. Do you prioritize certain construction sites for more frequent inspections? Yes No

If Yes, based on what criteria?

All projects with NMDOT right-of-way are inspected per the Construction General Permit (CGP) requirements.

G. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

- | | | | | |
|------------------------------|-----------------------|--------------------------------|--------------|-------------------------------------|
| <input type="checkbox"/> Yes | Notice of violation | <input type="text" value="0"/> | No Authority | <input type="checkbox"/> |
| <input type="checkbox"/> Yes | Administrative fines | <input type="text" value="0"/> | No Authority | <input type="checkbox"/> |
| <input type="checkbox"/> Yes | Stop Work Orders | <input type="text" value="0"/> | No Authority | <input type="checkbox"/> |
| <input type="checkbox"/> Yes | Civil penalties | <input type="text" value="0"/> | No Authority | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Yes | Criminal actions | <input type="text" value="0"/> | No Authority | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Yes | Administrative orders | <input type="text" value="0"/> | No Authority | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Yes | Other | <input type="text"/> | | |

H. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction? Yes No

I. What are the 3 most common types of violations documented during this reporting period?

Typically NMDOT projects will have minor comments to contractors regarding BMPs, but nothing that has resulted in an enforcement action. NMDOT has the ability to enforce deficiencies through contract documents if escalation is required.

J. How often do municipal employees receive training on the construction program?

5. Illicit Discharge Elimination

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? Yes No

B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system? Yes No

C. Identify the number of outfalls in your storm sewer system.

D. Do you have documented procedures, including frequency, for screening outfalls? Yes No

E. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period?

F. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage?

G. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.

Outfalls are screened a minimum of once per Permit term.

H. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges? Yes No

I. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges? Yes No

J. During this reporting period, how many illicit discharges/illegal connections have you discovered?

K. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated?

L. How often do municipal employees receive training on the illicit discharge program?

6. Stormwater Management for Municipal Operations

A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:

- | | | |
|--|---|--|
| All public parks, ball fields, other recreational facilities and other open spaces | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All municipal construction activities, including those disturbing less than 1 acre | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All municipal turf grass/landscape management activities | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All municipal vehicle fueling, operation and maintenance activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal maintenance yards | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal waste handling and disposal areas | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Other

B. Are stormwater inspections conducted at these facilities? Yes No

C. If Yes, at what frequency are inspections conducted?

D. List activities for which operating procedures or management practices specific to stormwater management have been developed (e.g., road repairs, catch basin cleaning).

Street sweeping, litter pickup, catch basin cleaning, culvert cleaning, scour repair, and water quality structure maintenance.

E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection? Yes No

F. If Yes, which activities and/or facilities receive most frequent inspections?

G. Do all municipal employees and contractors overseeing planning and implementation of stormwater-related activities receive comprehensive training on stormwater management? Yes No

H. If yes, do you also provide regular updates and refreshers? Yes No

I. If so, how frequently and/or under what circumstances?

Ongoing, as needed.

7. Long-term (Post-Construction) Stormwater Measures

A. Do you have an ordinance or other regulatory mechanism to require:

- | | | |
|--|---|-----------------------------|
| Site plan reviews for stormwater/water quality of all new and re-development projects? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Long-term operation and maintenance of stormwater management controls? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Retrofitting to incorporate long-term stormwater management controls? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

B. If you have retrofit requirements, what are the circumstances/criteria?

NMDOT will review STIP projects for opportunities to retrofit and incorporate appropriate control measures into redevelopment projects. NMDOT will not develop and inventory or priority ranking of potential retrofit projects.

C. What are your criteria for determining which new/re-development stormwater plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.)?

NMDOT will review STIP projects for opportunities to retrofit and incorporate appropriate control measures into redevelopment projects. NMDOT will not develop and inventory or priority ranking of potential retrofit projects.

- D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development? Yes No
- E. Do these performance or design standards require that pre-development hydrology be met for:
- Flow volumes Yes No
- Peak discharge rates Yes No
- Discharge frequency Yes No
- Flow duration Yes No
- F. Please provide the URL/reference where all post-construction stormwater management standards can be found.

https://dot.state.nm.us/content/dam/nmdot/Infrastructure/Drain_Design_Manual.pdf

- G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection?
- H. How many of the plans identified in 7.G were approved?
- I. How many privately owned permanent stormwater management practices/facilities were inspected during the reporting period?
- J. How many of the practices/facilities identified in I were found to have inadequate maintenance?
- K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?
- L. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? Yes No
- M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain stormwater management practices?
- N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes No
- O. Do all municipal departments and/or staff (as relevant) have access to this tracking system? Yes No
- P. How often do municipal employees receive training on the post-construction program?

8. Program Resources

- A. What was the annual expenditure to implement MS4 permit requirements this reporting period?
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit?
- C. This year what is/are your source(s) of funding for the stormwater program, and annual revenue (amount or percentage) derived from each?
- | | | | | | |
|---------|---|-----------|----------------------|------|----------------------------------|
| Source: | <input type="text" value="DOT Budget"/> | Amount \$ | <input type="text"/> | OR % | <input type="text" value="100"/> |
| Source: | <input type="text"/> | Amount \$ | <input type="text"/> | OR % | <input type="text"/> |
| Source: | <input type="text"/> | Amount \$ | <input type="text"/> | OR % | <input type="text"/> |
- D. How many FTEs does your municipality devote to the stormwater program (specifically for implementing the stormwater program; not municipal employees with other primary responsibilities)?

E. Do you share program implementation responsibilities with any other entities? Yes No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
	Refer to Item 10 Additional	
	Information Memo, Item 8E	

9. Evaluating/Measuring Progress

A. What indicators do you use to evaluate the overall effectiveness of your stormwater management program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall program, such as macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
<i>Example: E. coli</i>	2003	Weekly April–September	20
Adopt-a-highway tracking	pre MS4 Permit	monthly	18 roadways
Maintenance activity tracking	pre MS4 Permit	weekly	18 roadways

B. What environmental quality trends have you documented over the duration of your stormwater program? Reports or summaries can be attached electronically, or provide the URL to where they may be found on the Web.

10. Additional Information

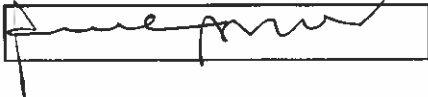
Please attach any additional information on the performance of your MS4 program, including information required in Parts I.C, I.D, and III.B. If providing clarification to any of the questions above, please provide the question number (e.g., 2C) in your response.

Certification Statement and Signature

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.

Yes No

Federal regulations require this application to be signed as follows: **For a municipal, State, Federal, or other public facility:** by either a principal executive or ranking elected official.

Signature  PAUL PRASHER, PE, DISTRICT ENGINEER 11-20-2020
 Name of Certifying Official, Title Date (mm/dd/yyyy)



Date: December 1, 2020
 To: EPA Region 6
 From: Paul Brasher, PE, NMDOT District 5 Engineer
 Subject: **NPDES Stormwater Program MS4 Annual Report
 Item 10: Additional Information
 New Mexico Department of Transportation, District 5
 NPDES Permit NMR04S005 (Santa Fe UA)**

The items below provide additional information for each corresponding item in the MS4 Annual Report Format PDF for the reporting period July 1, 2019, to June 30, 2020.

1. The total population listed is 89,284 for the City of Santa Fe Urbanized Area (UA) located within NMDOT District 5. The 2010 U.S. Census population values for the urbanized areas and urban clusters were used for this population estimate.
 NPDES Permit number: NMR04S005 (Santa Fe UA).
2. **2B:** Impaired Waters – Text box in the Environmental Protection Agency (EPA) MS4 Annual Report PDF form truncates text. For clarity, impaired waters that the NMDOT District 5 discharges into within the Santa Fe MS4 area include:

Impaired Water*	Impairment	Approved TMDL?	TMDL Assigns WLA for MS4?
Santa Fe River (Cienega Creek to Santa Fe WWTP) NM-2110_00	Nutrients E. coli	No Yes Also, TMDL (but no impairments) for sedimentation/siltation, DO, pH, and chlorine	N/A Yes No WLAs for MS4s for sedimentation/siltation, DO, pH, and chlorine
Santa Fe River (Santa Fe WWTP to Guadalupe St) NM-9000.A_061	E. coli Aluminum, total recoverable	Yes No	Yes N/A

*Impaired water designation from New Mexico Environment Department (NMED) Surface Water Quality Bureau 2018-2020 State of New Mexico CWA §303(d)/§305(b) Integrated List & Report.

2C: NMDOT maintenance activities target collection, removal, and disposal of floatables, roadside litter, and sediment. NMDOT compliance with the Construction General Permit (CGP) requirements targets sedimentation concerns within the watershed.

NMDOT's facilities and activities do not contribute directly to the existing impairments and therefore, NMDOT's activities do not target these impairments. As an example, NMDOT does not use fertilizers during general operations, and NMDOT roadways are not a source of excess plant nutrients which are causing the nutrients and low DO issues in the Santa Fe River. For E. coli, MS4s can be significant sources of E. coli because they transport urban runoff that can be affected by pet waste, illicit sewer connections, and failing septic systems – all of which are not directly related to NMDOT roadways or operations.

3. No additional comments on information provided on the MS4 Annual Report Form.

4. **4A:** Regulatory Mechanisms:

NMDOT Standard Specifications for Highway and Bridge Construction – web link: <https://dot.state.nm.us/content/nmdot/en/standards.html#>, construction contract, and NPDES Manual – web link:

<http://dot.state.nm.us/content/dam/nmdot/Infrastructure/NPDESM.pdf>. NMDOT led the effort in FY 2020 to update the NPDES Manual. This updated Manual will be completed in FY 2021 and will include updated regulatory information as well as added Green Stormwater Infrastructure (GSI) and Low Impact development (LID) Best Management Practices.

4B: NMDOT Standard Specifications for Highway and Bridge Construction and EPA SWPPP inspection form (available in NPDES Manual). Links provided in 4A above.

4C & 4D: There were zero (0) NMDOT construction projects that were both within the MS4 boundary and disturbed greater than one (1) acre of bare ground in the Santa Fe UA during this reporting period. As a result, there were zero (0) construction sites that required inspections during this reporting period.

4J: NMDOT NPDES/SWPPP Qualified training is required every four (4) years but is typically offered multiple times per year.

5. **5A:** An NMDOT Outfalls map for the Santa Fe MS4 area has been developed. This map was provided to the EPA with the Annual Report submitted on March 22, 2018 for the time period of January 1, 2016 through June 30, 2017.

5B: The vast majority of potential NMDOT storm drain outlets are short culverts under the roadways, and therefore do not need to be mapped to determine upstream sources. The limited networked storm drains within NMDOT ROW capture only NMDOT runoff. Mapping these will serve no benefit in locating illicit discharges entering NMDOT ROW from outside its jurisdiction.

5H: NMDOT has no authority to issue an ordinance or other regulatory mechanism to prohibit illicit discharges.

5I: NMDOT has no authority to issue an ordinance or other regulatory mechanism to take enforcement action or recover costs for addressing illicit discharges.

5J & 5K: No illicit discharges were discovered during this reporting period in the Santa Fe UA.

5L: NMDOT does not have a stand-alone illicit discharge training program – this topic is covered in the general stormwater training, spill prevention and response training, as well as in the maintenance activity performance guidelines (such as emergency repairs/clean-up and litter pickup). All employees also have access to an illicit discharge educational brochure and report form - <http://dot.state.nm.us/content/dam/nmdot/Infrastructure/Illicit-Discharge-Brochure-and-Form.pdf>.

6. 6A:

1. NMDOT does not have parks or ball fields.
2. All projects greater than (>) one (1) acre are required to develop a SWPPP as required by the Construction General Permit (CGP); projects less than (<) one (1) acre are dealt with on a case-by-case basis.
3. NMDOT has negligible turf and landscaping.
4. NMDOT has an equivalent plan for vehicle fueling, operation and maintenance activities.
5. NMDOT has an equivalent plan for maintenance yard operation – development of SWPPP type documents is currently underway for the NMDOT facilities within the Santa Fe MS4 area.
6. NMDOT has no municipal waste handling facilities.

6B: Safety inspections are conducted by NMDOT's Risk Management group typically once per year.

6G: All employees who approve drainage plans and final stabilization temporary erosion control plans receive comprehensive training on stormwater management.

7. 7E:

1. Pre-development hydrology flow volumes are not limited by NMDOT design standards. Stormwater retention is required within MS4 areas as required in the MS4 Permits (covering the Middle Rio Grande Permit and anticipating the regulations in the forthcoming state-wide permit).
2. Peak discharge rate limits are addressed in the current Drainage Design Manual (DDM).
3. Discharge frequency is not limited by NMDOT design standards.
4. Flow duration is not limited by NMDOT design standards.

7F: The web page link to NMDOT's Drainage Design Manual, which includes post-construction stormwater management standards, is:

http://dot.state.nm.us/content/dam/nmdot/Infrastructure/Drain_Design_Manual.pdf.

7G & 7H: There were three (3) development/re-development projects reviewed during this reporting time frame within the MS4 area. All of these projects are in the study

phase and not yet final/approved projects.

7I & 7J: Not applicable; there are no privately-owned facilities within the NMDOT jurisdiction.

7K through M: Not applicable; NMDOT is the only operator post-construction and as a result, no enforcement authority or action is required.

8. **8A:** Dollar amounts shown reflect estimated expenditures from July 1, 2019 through June 30, 2020. Expenditures shown reflect consultant fees, costs for maintenance activities (litter pickup, street sweeping, drainage structure cleaning, etc.), and New Mexico Corrections Department contract cost for litter pickup (which reflect costs District-wide, but most of those costs were within the MS4 boundary). The costs of the Drainage Design Bureau employee salaries, training, and travel expenses were **not** included in this MS4 program resources estimate.

1. Consultant fees = \$45,900

2. Maintenance activities = \$64,200

3. Total = \$110,100

8B: Next year's budget for implementing NMDOT District 5's Santa Fe MS4 NPDES program is anticipated to be similar to this year's expenditures.

8C: NMDOT has no annual revenue or direct funding source for the MS4 program. The MS4 program budget (amounts shown) is allocated out of the general funding for the DOT.

8E: NMDOT is part of the Santa Fe MS4 Advisory Group, which is organized as a Memorandum of Agreement between the City of Santa Fe, Santa Fe County, and NMDOT District 5. This group agrees to support and encourage a cooperative commitment to assist one another with issues regarding compliance with the MS4 Permit within the Santa Fe MS4 area. The group cooperates on public education, including distribution of pamphlets and informational brochures.

9. **9A:** NMDOT is a non-traditional MS4 and evaluating the overall effectiveness of its stormwater management program focuses on metrics collected specific to its roadway facilities. Large scale watershed or in-stream hydrologic studies are beyond the jurisdiction and reach of NMDOT. NMDOT tracks adopt-a-highway data (public participation litter removal program) including the number of volunteers and amount of trash removed for each of the six (6) NMDOT districts within the state. In addition, through NMDOT's MMS (previously termed HMMS) system, NMDOT tracks all of their maintenance activities in each district including miles of roadway sweeping, litter removal, and drainage structure cleanings. Tracking this data assists NMDOT in evaluating the overall effectiveness of its activities related to stormwater management and MS4 Permit compliance.
10. Support documents similar to those provided with previous MS4 Annual Reports have been compiled and are on file at NMDOT offices. They have not been included in this report to keep this submittal to a manageable size. These support documents are available upon request.