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**FY 2020 MS4 Annual Report  
in Compliance with  
Watershed Based Permit NMR04A000**



***County of Bernalillo***  
*State of New Mexico*  
*Natural Resource Services*

**DRAFT**

October 7, 2020

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## **List of Attachments**

- 1 Bernalillo County Stormwater Facilities Map
- 2 MRGSQT Outcomes Report

## Annual Report Format



### National Pollutant Discharge Elimination System Stormwater Program MS4 Annual Report Form



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

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

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

#### 1. MS4(s) Information

Bernalillo County

Name of MS4

Kali

Bronson

Stormwater Prog. Compl. Manager

Name of Contact Person (First)

(Last)

(Title)

(505) 848-1544

kbronson@bernco.gov

Telephone (including area code)

E-mail

2400 Broadway Blvd. SE, Building N

Mailing Address

Albuquerque

NM

87102

City

State

ZIP code

What size population does your MS4(s) serve?

111,000

NPDES number

NMR04A008

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
Rio Grande NM 2105_50 (Islet+)	E. coli	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rio Grande NM 2105_50 (Islet+)	Dissolved Oxygen	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Rio Grande NM 2105_50 (Islet+)	PCBs-Fish Consumption Advi+)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Rio Grande NM 2105.1_51 (Tij+)	E. coli (no impairment, has TMDL+)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**2. B. Continued**

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
Rio Grande NM 2105.1_51 (Tijeras Arroyo)	Dissolved Oxygen	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Rio Grande NM 2105.1_51 (Tijeras Arroyo)	Temperature	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Rio Grande NM 2105.1_51 (Tijeras Arroyo)	PCBs-Fish Consumption Advisory	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Tijeras Arroyo NM-9000.A_00	Nutrients	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

Pet waste (E. coli); septic waste (E. coli); household waste (nutrients & potential PCBs); grease-FOG (DO, nutrients & E. coli)

- 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?

Pet waste, septic system waste, oils, trash/debris/floatables, and household hazardous waste.

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.

Please refer to the attached Annotations document for public education program and outcome information.

- 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. TBD

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

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

On average, 3 site inspections are conducted for each project. A minimum of 1 inspection occurs with as many as 5 inspections.

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

If Yes, based on what criteria?

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:

- Yes Notice of violation  No Authority
- Yes Administrative fines  No Authority
- Yes Stop Work Orders  No Authority
- Yes Civil penalties  No Authority
- Yes Criminal actions  No Authority
- Yes Administrative orders  No Authority
- Yes Other

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?

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.

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  Yes  No
- All municipal construction activities, including those disturbing less than 1 acre  Yes  No
- All municipal turf grass/landscape management activities  Yes  No
- All municipal vehicle fueling, operation and maintenance activities  Yes  No
- All municipal maintenance yards  Yes  No
- All municipal waste handling and disposal areas  Yes  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).

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?

**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?  Yes  No
- Long-term operation and maintenance of stormwater management controls?  Yes  No
- Retrofitting to incorporate long-term stormwater management controls?  Yes  No

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

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.)?

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://www.bernco.gov/public-works/post-construction-storm-water-management-new-re-development.aspx>

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:	1/8th Environmental Gross Receipts Tax	Amount \$	226,500	OR %	
Source:	General Fund Revenues	Amount \$	\$1.92 M	OR %	
Source:	Open Space Mill Levy	Amount \$	266,400	OR %	

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
<input type="text"/>	Please refer to the attached	<input type="text"/>
<input type="text"/>	Annotations document for information	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

**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
Please refer to the attached	<input type="text"/>	<input type="text"/>	<input type="text"/>
Annotations document for information	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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 and III.B. If providing clarification to any of the questions on this form, 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     
 Name of Certifying Official, Title Date (mm/dd/yyyy)



## Annual Report Annotations

### 1. MS4 Information

**Page 1: What size does your MS4 serve?** Bernalillo County is 1,160 square miles and is New Mexico's most populous county with more than 678,000 residents. Bernalillo County government provides a wide range of public services to residents who live in Albuquerque, Los Ranchos de Albuquerque, Tijeras, and the **111,000 residents** who live outside the village and city limits in the unincorporated areas of the County. This population includes residents who live both within and outside of the urbanized area.

### 2. Water Quality Priorities

**Page 1-2: Impaired waters.** Text box in the Environmental Protection Agency (EPA) Annual Report PDF form truncates text. For clarity during public review, impaired waters include:

Impaired Water*	Impairment
Rio Grande NM-2105_50 (Isleta Pueblo Bdy to Tijeras Arroyo)	E. coli**
Rio Grande NM-2105_50 (Isleta Pueblo Bdy to Tijeras Arroyo) & Rio Grande NM-2105_51 (Tijeras Arroyo to Alameda Bridge)	Dissolved Oxygen
Rio Grande NM-2105_50 (Isleta Pueblo Bdy to Tijeras Arroyo) & Rio Grande NM-2105_51 (Tijeras Arroyo to Alameda Bridge)	PCBs - Fish Consumption Advisory
Rio Grande NM-2105_51 (Tijeras Arroyo to Alameda Bridge)	Temperature, water
Tijeras Arroyo NM-9000.A_001 (Four Hills Bridge to headwaters)	Nutrients***

\*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.

\*\*Though most of the Rio Grande through Albuquerque is not impaired for E. coli, there is a TMDL for E. coli from Isleta Pueblo Boundary to Angostura Diversion. Bernalillo County's northern boundary is at Alameda Bridge.

\*\*\*A TMDL for nutrients in the Tijeras Arroyo was finalized on 10/12/2017. Since this TMDL was released after the MRG MS4 Permit issuance, for the purposes of permit compliance, nutrients in the Tijeras Arroyo are treated as an impairment without a TMDL.

### 3. Public Education and Public Participation

**Page 2: Item 3C. 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.**

The table below summarizes the Bernalillo County Public Outreach program during this reporting period. Additional information on the outreach programs is available upon request.

Throughout the reporting period of July 1, 2019, through June 30, 2020, the Bernalillo County Public Outreach programs connected with and educated thousands of Bernalillo County residents. In addition, Bernalillo County is a member of the Mid-Rio Grande Stormwater Quality Team (MRGSQT). Overall, the educational programs and outreach activities conducted by



Bernalillo County and the MRGSQT during this reporting period connected an estimated **TBD** times with County residents. Outreach results are estimated from the MRGSQT Outcomes Report, Bernalillo County website statistics, monthly newsletters, presentations, education outreach activities, and various public events results. The table below provides a summary of Bernalillo County outreach efforts and outcomes.

Public Education Outreach	Date	Successful Outcome
Bernalillo County website pages related to MS4 program and stormwater	July 1, 2019 - June 30, 2020	Analytics show webpages had 1,049 page views.
Bernalillo County Septic Systems Permits, "Unpermitted" and Aging System Wastewater System Campaign" Outreach Program	July 1, 2019 - June 30, 2020	Bernalillo County had <b>TBD</b> total wastewater operator permits, <b>TBD</b> total wastewater system permits, as well as <b>TBD</b> septic abandonments and connections to public sewer utilities. Bernalillo County sent 813 letters through the "unpermitted and aging wastewater system campaigns" which resulted in an estimated 235 properties permitted (included in the total numbers listed above) for septic systems in FY 2020.
Bernalillo County Septic Systems Permits, PIPE and TANK direct mail outreach	July 1, 2019 - June 30, 2020	The Bernalillo County PIPE and TANK program provides information to the public through newspaper advertisements, websites, flyers at community centers and libraries, periodic mailings, public meetings, and by other means appropriate to inform the community about services provided through the program.
Bernalillo County / City of Albuquerque (COA) Cooperative Household Hazardous Waste (HHW) Collection Center	July 1, 2019 - June 30, 2020	Bernalillo County contributed over <b>\$TBD</b> to support joint efforts with COA for the HHW collection center. In FY 2020, <b>TBD</b> County residents and <b>TBD</b> COA residents participated in the Hazardous Waste Collection Programs. Approximately <b>TBD</b> pounds of HHW were disposed of at the Advanced Chemical Transport (ACT) HHW Collection Center.
Bernalillo County HHW Neighborhood Collection Events	July 1, 2019 - June 30, 2020	In FY 2020, Bernalillo County hosted 7 HHW weekend neighborhood collection events in association with mini-cleanup events. During the 7 events, 241 individuals participated and 5,206 pounds of HHW were collected at a cost of <b>\$TBD</b> . An HHW report is available upon request.



Public Education Outreach	Date	Successful Outcome
		The HHW report includes historical trend analysis for this outreach program as well as specific collection data per location.
BernCo at A Glance Monthly Newsletters	July 1, 2019 - June 30, 2020	An estimated 500 hardcopies of each newsletter are printed and distributed via County offices and provided at neighborhood association meetings by the neighborhood coordinator. The neighborhood coordinator also sends the monthly electronic newsletter to all County and City neighborhood associations. It is estimated that these monthly newsletters reach 1,000 people per month and 12,000 people annually.
Bosque Environmental Monitoring Program (BEMP) Monitoring and Educational Outreach Programs	July 1, 2019 - June 30, 2020	<ul style="list-style-type: none"> <li>- Reached approximately TBD people (with repeats) throughout New Mexico through their outreach activities.</li> <li>- Bernalillo County classrooms participated in monthly monitoring programs at TBD monitoring sites.</li> <li>- BEMP provided in-classroom and field-based educational programming for TBD Bernalillo county schools.</li> </ul>
Bernalillo County Employee Training - Stormwater Quality Training and IDDE Training	July 1, 2019 - June 30, 2020	Bernalillo County began using a video training service - Excal Visual, Inc. in FY 2018. In FY 2020, 41 people completed the IDDE training and 30 completed the Rain Check Training (general stormwater quality training).
Master Naturalists Volunteering at Bernalillo County Open Space	July 1, 2019 - June 30, 2020	Master Naturalists volunteer at the Bernalillo County Open Space workday events as well as with tour and education events for the public. Since the program began in 2010, there have been over 500 registered volunteers. In FY 2020, there were TBD documented volunteer hours.
EPA Region 6 Stormwater Conference – Responding to Change: Dynamic Stormwater Management in Economic, Political, and Climatic Transitions, Denton, TX	July 28 - August 1, 2019	Kali Bronson, Bernalillo County Stormwater Program Compliance Manager, attended, served as a session moderator, and presented at the 2019 EPA Region 6 Stormwater Conference in Denton, TX. Attendance at the Bernalillo



Public Education Outreach	Date	Successful Outcome
		County presentation is estimated at 75 people.
2019 Arid LID Workshop	September 19 – 20, 2019	Arid LID is a Coalition of interdisciplinary professionals in the Middle Rio Grande area working to promote the use of GSI and LID in development. The Coalition held a workshop which brought together policy makers, engineers, biologists, developers, and others to educate and make future plans for GSI/LID opportunities. Attendance included 66 people.
East Mountain Celebration	September 22, 2019	This is a family-friendly event, and kids enjoyed free activities like face painting, fun jumps, a petting zoo, and obstacle courses. Both Bernalillo County and Tijeras Creek Watershed Collaborative had a water quality booth which provided information to educate County residents on stormwater quality, water conservation methods and incentive programs, and groundwater monitoring programs. Attendance included approximately 1,500 people.
RiverXchange Program by Ciudad Soil and Water Conservation District	2019-2020 Academic Year	Bernalillo County supports RiverXchange which gave a series of presentations and hosted field trips for 38 fifth grade classes. Program elements included addressing topics in stormwater, wastewater, drinking water, water use in agriculture, and planting field trips. Attendance included 932 students and 40 teachers.
Arroyo Classroom Program, by Ciudad Soil and Water Conservation District	2019-2020 Academic Year	The program, partially funded by Bernalillo County, reached 736 students in 35 classes. Both in-class presentations and a field trip to an arroyo habitat were part of the program. Students built a watershed model to facilitate their understanding of surface water pollution and prevention.
Annual Bosque Planting Day	February 22, 2020	Bernalillo County supported the Bosque Cultural Healing Garden Project for a day of reforestation with volunteers revitalizing the Albuquerque Bosque. Attendance is estimated at 167 volunteers.



Public Education Outreach	Date	Successful Outcome
Sponsorship of New Mexico Land and Water Summit	February 27 – 28, 2020	Bernalillo County provided the New Mexico Land and Water Summit with a sponsorship of \$5,000. Topics discussed at the summit included green stormwater infrastructure, watershed restoration and management, and public outreach and engagement. Attendees included 154 professionals in the fields of hydrology, landscape architecture, landscaping, and engineering. The field trips included two Bernalillo County projects - Alameda Drain Train and South 2nd Street Project.
New Mexico Arbor Day Celebration	March 14, 2020	Bernalillo County sponsored an event promoting tree care, environmental responsibility, and community involvement in making Albuquerque “greener”. The event included tree care and planting demos. TBD people participated in the event.
Tijeras Creek Watershed Collaborative Youth Conservation Corp. Workday	October 5, 2019	Bernalillo County is a partner in the Tijeras Creek Watershed Collaborative. The Youth Conservation Corp. completed a workday helping to restore the creek. The group were also weeding in the area and repaired a spillway and berms. 31 people participated in the event.
Talking Talons Youth Leadership	April 29, 2020	Bernalillo County provided online resources and worksheets to teach 6th graders about land use impacts on stormwater and the river, human activities and their impacts, and things kids can do to reduce stormwater pollution.
Pueblo of Isleta Environment Department Alternative 2020 Environmental Fair	June 26, 2020	Bernalillo County put together an online activity book with educational information about pet waste and watershed health for 250 fair participants.
Albuquerque Bernalillo County Water Utility Authority Bill Insert	July 2020	In FY 2020, Bernalillo County created an informational insert about how individuals can contribute positively to water quality. The insert was mailed to 210,000 households in July 2020.



In addition, during this reporting period, Bernalillo County was an active member in the Mid-Rio Grande Stormwater Quality Team (MRGSQT), with Kali Bronson, Bernalillo County Stormwater Program Compliance Manager, serving as the MRGSQT chairperson during FY 2020. The MRGSQT outreach efforts are summarized annually in the Summary for Outcomes Report; a copy of this report is included in Attachment 2 (*Note – Outcomes Report is not included with this Draft Annual Report – Outcomes Report was not complete*). Through the MRGSQT collaborative an estimated TBD people were reached (with duplicates) with a stormwater quality/stormwater pollution prevention message during FY 2020. The outreach numbers for FY 2020 have been impacted, from March 2020 through June 2020, by the COVID-19 pandemic and resulting social distancing requirements within New Mexico.

#### 4. Construction

**Page 4: Item 4E. Describe, on average, the frequency with which your program conducts construction site inspections.** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

On average, 3 site inspections are conducted for each project. A minimum of 1 inspection occurs with as many as 5 inspections, depending on the duration and complexity of the construction project.

**Page 4: Item 4F. Do you prioritize certain construction sites for more frequent inspections? If Yes, based on what criteria?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

All construction sites are inspected. If there are prior or current complaints or construction delays, the County may conduct additional inspections.

**Page 4: Item 4I. What are the three most common types of violations documented during this reporting period?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

Typically, if inspectors find any issues/inconsistencies during an inspection, they will inform the site manager and are usually able to resolve the issue without needing enforcement. The three most common issues encountered during inspections include: Stormwater Pollution Prevention Plan (SWPPP) document not located on-site, Best Management Practice (BMP) maintenance issues including mud/dirt tracking issues, and absence of or improperly placed rain gages.

#### 5. Illicit Discharge Elimination

**Page 4: Item 5L. How often do municipal employees receive training on the illicit discharge program?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

County employees receive training on the illicit detection and discharge elimination program upon hire, and certain departments receive annual training specific to their



department responsibilities. Bernalillo County started using training videos provided through Excal Visual, Inc. in FY 2018 and have continued their use in FY 2020.

## 6. Stormwater Management for Municipal Operations

**Page 4: Item 6A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for?** “Other” text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

Procedures are in place in the County’s Pollution Prevention and Good Housekeeping Program document. The Stormwater Program Compliance Manager will continue to coordinate with specific departments to formalize and improve this program.

**Page 4: Item 6I. If so, how frequently and/or under what circumstances?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response.

Complete response:

County employees with responsibilities related to planning and implementation of stormwater-related activities receive annual training on stormwater management through the Excal Visual, Inc. training videos.

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

**Page 4: Item 7C. 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.)?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

All development and re-development projects with land disturbances equal to or greater than one (1) acre, including sites which disturb less than one (1) acre but are part of a larger common plan of development, that discharge into the County’s storm drainage system within the urbanized area of the County, are required to have post-construction water quality BMPs. The County reviews site plans and evaluates the effectiveness of the post-construction BMP based on site conditions. BMPs are inspected upon project completion.

**Page 5: Item 7G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

Total number of projects reviewed in FY 2020 = 92

Total number of projects approved in FY 2020 = 50

Total number of projects still in review (not approved yet) that started in FY 2020 = 39

Number of projects reviewed that were void or withdrawn in FY 2020 = 3



## 8. Program Resources

**Page 6: Item 8E. Do you share program implementation responsibilities with any other entities?** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

Entities	Activity/Task/Responsibility	Your Oversight/ Accountability Mechanism
Bernalillo County AMAFCA COA NMDOT-District 3 UNM Sandoval County Village of Corrales City of Rio Rancho Village of Los Ranchos Kirtland Air Force Base Town of Bernalillo SSCAFCA ESCAFCA Sandia National Laboratory (DOE)	MS4 Middle Rio Grande Technical Advisory Group (TAG) – various cooperative activities	Intergovernmental Agreement
Bernalillo County AMAFCA COA NMDOT-District 3 UNM Sandoval County Village of Corrales City of Rio Rancho Village of Los Ranchos Town of Bernalillo SSCAFCA ESCAFCA	MS4 Compliance Monitoring Cooperative (CMC) – Wet Weather Monitoring	Intergovernmental Agreement and Memorandum of Understanding for Delegation of Authority to AMAFCA for Data Entry into netDMR System
Bernalillo County AMAFCA COA NMDOT-District 3 Sandoval County Village of Corrales City of Rio Rancho Village of Los Ranchos Town of Bernalillo SSCAFCA ESCAFCA	Mid-Rio Grande Stormwater Quality Team (MRGSQT) – various cooperative public education and outreach activities	Intergovernmental Agreement



Entities	Activity/Task/Responsibility	Your Oversight/ Accountability Mechanism
Ciudad Soil and Water Conservation District		
Bernalillo County Village of Los Ranchos COA NMDOT-District 3 AMAFCA	Development Review – Construction and Post-Construction Stormwater Management	Intergovernmental Agreement
Bernalillo County ABCWUA COA AMAFCA NMDOT Village of Los Ranchos	Capacity, Management, Operations and Maintenance (CMOM) Plan Spill Response, emphasis on Fats, Oils and Grease (FOG)	Intergovernmental Agreement
Bernalillo County COA AMAFCA NMDOT-District 3 Village of Los Ranchos ABCWUA MRGCD	Investigation and Resolution of IDDE	Shared without cost allocation
Bernalillo County COA	Household Hazardous Waste Collection Program	Cost share for fixed collection facility
Bernalillo County AMAFCA	Gross Debris Study	Shared without cost allocation
Bernalillo County USGS	Microbial Source Tracking and Escherichia coli Monitoring in the Rio Grande in the South Valley, Albuquerque, New Mexico and A Comparison of Water-Quality and Stormwater Inflow and Outflow during and after habitat Restoration at the McEwen Storm Drainage Pond, South Valley, Albuquerque, New Mexico	Cooperative agreement with cost agreement
Bernalillo County AMAFCA USACE US Bureau of Reclamation USEPA USFWS	Ecohydrologic and Water Quality Investigations of Valle de Oro National Wildlife Refuge and Albuquerque South Valley Commons	Cooperative agreement with cost agreement



Entities	Activity/Task/Responsibility	Your Oversight/ Accountability Mechanism
Bernalillo County (Public Works and Open Space) The Nature Conservancy Canon de Carnuel Land Grant UNM Ciudad Soil and Water Conservation District Adaptive Terrain Systems COA Open Space Division NMDOT-District 3 USGS USFWS Cibola National Forest Rocky Mountain Youth Corps. Talking Talons Youth Leadership Village of Tijeras	Tijeras Creek Watershed Collaborative (TCWC)	Shared without cost allocation

### 9. Evaluating/Measuring Progress

**Page 6: Item 9A. 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.** Text box in the EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

Indicator	Began Tracking (year)	Frequency of Evaluation	Number of Locations or Indicator Tracked and FY 2020 Results
Public Education and Outreach, number of people reached.	2014	Variable; several times annually	No. of people reached: FY 2020 = TBD people
Mailings with water bills, number of residences reached.	2014	Typically, Annually	No. of residences reached: FY 2020 = 1 mailing, 210,000 residences
Septic system issues resolved.	2012	Annually	No. of septic issues resolved: FY 2020 = 235 septic system permits issued



Indicator	Began Tracking (year)	Frequency of Evaluation	Number of Locations or Indicator Tracked and FY 2020 Results
Recycling Waste Diversion Program	2013	Annually	Tons of waste recycled: FY 2020 = TBD tons of household hazardous waste recycled & diverted from landfill through this program
Household Hazardous Waste Collection – Cooperative Program with COA	2014	Annually	No. of participants: FY 2020 = TBD participants Program Cost for County: FY 2020 = \$TBD
Household Hazardous Waste Collection – County only Collection Events	2014	Annually	No. of County participants: FY 2020 = TBD participants No. of County events: FY 2020 = TBD events

**Page 6: Item 9B. What environmental quality trends have you documented over the duration of your stormwater program? Reports of summaries can be attached electronically or provide the URL to where they may be found on the web.** Text box in EPA Annual Report PDF form does not allow enough space to enter complete response. Complete response:

- AMAFCA, with environmental consultant CDM Smith, completed a “Middle Rio Grande E. coli Analysis and Research” project and report in April 2015. This report assembled data collected by the US Geological Survey (USGS), NMED, and the Bosque Environmental Monitoring Program (BEMP) on E. coli in the Middle Rio Grande and analyzed this data to develop the larger picture of E. coli in the Rio Grande (Isleta Pueblo boundary to Alameda Street Bridge) segment. Report is available upon request.
- Bosque Environmental Monitoring Program (BEMP) Invoices & Reports for FY 2016 through FY 2020 (available upon request).
- Given the data (three years, seven samples) collected from the Compliance Monitoring Cooperative (CMC), observable trends have not yet been identified. CMC Monitoring Memos are available upon request.
- Additional supporting data is available upon request.

## 10. Additional Information

Bernalillo County’s Stormwater Management Program (SWMP) Plan was updated last year as required in the MS4 Permit. It is provided accessible online at: <https://www.bernco.gov/public-works/epa-regulation-of-stormwater-in-bernalillo-county.aspx> or available for review upon request. The current SWMP version is Revision 1, December 2019.



Some MS4 Permit activities for FY 2020 have been impacted, from March 2020 through June 2020, by the COVID-19 pandemic and resulting social distancing requirements within New Mexico.

**Page 6: Item 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.**

#### **10.1 Compliance with Water Quality Standards – PCBs - Part I.C.1.e**

The MS4 Permit requires submittal of a proposed PCB strategy to EPA within two years from effective date of permit (two years from effective date of Permit is December 22, 2016) and submittal of progress reports with the third and subsequent Annual Reports. The progress for FY 2020 is summarized below.

In FY 2019, Bernalillo County and USGS completed a monitoring program to evaluate PCBs in water and soil samples at four watersheds in Bernalillo County under a range of flow scenarios and time periods. The USGS used modelled rainfall-runoff simulated discharge to calculate PCB event loads. USGS completed their analysis and published the USGS Scientific Investigation Report (SIR). The final USGS report was included in Bernalillo County's FY 2019 Annual Report.

The USGS report found that concentrations of PCBs observed during the study were similar to concentrations of PCBs for stormwater studies in other parts of the country and in the world. The PCB congener profiles are similar to the Arochlor profile, and the report found that PCBs in stormwater basins are likely from a mixture of legacy sources, such as Arochlor, and current sources, such as inks and pigments. PCB-11 was the most frequently detected congener in water samples, occurring in 24 of 36 samples, and could be originating in stormwater from trash containing printed materials.

Bernalillo County has multiple programs which focus on trash and litter control in the County. These programs include the Public Education and Outreach programs focused on litter prevention, Public Involvement and Participation programs including local clean-up events, and Pollution Prevention and Good Housekeeping programs to sweep streets, clean & maintain inlets, as well as clean & maintain County drainage facilities. These litter and trash control programs help address the concerns with the PCB-11 sources from inks and pigments. In addition, the County has, and continues to implement, sediment controls and reduction strategies; these controls and strategies assist with addressing the legacy PCBs, which are often absorbed onto sediment and transported with stormwater into the Rio Grande. As a recent example, in FY 2020, Bernalillo County conducted a feasibility study for structural improvement options to the Alameda Storm Drain Outfall that included best management practices and green stormwater solutions addressing trash and sediment capture to improve water quality from the outfall.



Related to this section of the MS4 Permit and addressing concerns regarding PCBs in channel drainage areas, Bernalillo County included provisions in their Stormwater Quality Ordinance (Section 38-415) that allows for the County to request an evaluation of the site for PCBs as part of the development and redevelopment processes. The evaluation may require soil sampling on the site as well as downstream and may require the owner to include on-site BMPs.

## **10.2 Discharges to Impaired Waters with Approved TMDLs - Part I.C.2.b.(i) and TABLE 1.a - TMDL Bacteria Program- Part I.C.2.b.(iii)**

FY 2020 – Annual Report Progress Report: The MS4 Permit requires an annual progress report on the targeted controls for Escherichia coli (E. coli) bacteria. The segment of the Rio Grande that flows through Albuquerque, designated as Rio Grande NM-2015\_50 (Isleta Pueblo boundary to Tijeras Arroyo), also referenced as Rio Grande Basin 20.6.4.105, in the 2018-2020 State of New Mexico Clean Water Act (CWA) 303(d)/305(d) Integrated List and Report, is considered to be impaired for E. coli because the quality of the water does not support the designated uses for that segment. The amount of E. coli bacteria in the water has been found to exceed the water quality standard, so a Total Maximum Daily Load (TMDL) has been adopted by the New Mexico Water Quality Commission (NMED, 2010). This Annual Report serves as a progress report for the Bernalillo County TMDL Bacteria Program for FY 2020.

Sanitary Sewer Systems: Sanitary sewer systems that run through the County MS4 are owned, operated, and maintained by the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). The County works cooperatively with ABCWUA under their Capacity, Management, Operations, and Maintenance (CMOM) program to address any leaks and/or spills from the sanitary sewer system. Because the County does not own, operate, or maintain the sanitary sewer system, it does not have any specific MS4 Permit measurable goals related to this target area in their SWMP. In FY 2020, the County continued to work cooperatively with the ABCWUA under their CMOM program to address any leaks and/or spills from the sanitary sewer system. The ABCWUA CMOM Annual Report is available online ([https://www.abcwua.org/Sewer\\_System.aspx](https://www.abcwua.org/Sewer_System.aspx)) or upon request.

On-Site Sewage Facilities: Related to targeted controls for on-site sewage facilities, the County administers the septic system permitting program in the unincorporated portions of Bernalillo County under the Bernalillo County Wastewater Ordinance, ensuring the proper disposal of septic waste and proper operation and maintenance of septic systems. The County used its existing Well and Wastewater permitting process to distribute information about proper septic system maintenance to 100 percent of new septic permit holders in FY 2020. Issuance of County septic permits included an information packet with recommended pumping/maintenance schedules and “do’s and don’ts” of septic system care. The County issued **TBD** wastewater discharge and operator permits in FY 2020. In addition, the County continued its campaign to permit 100 percent of unpermitted septic systems. This campaign met its measurable annual



goal of contacting 200 unpermitted system or aging system owners with the intent of verifying status and providing education regarding proper operation of the systems. As a result of the FY 2020 campaign, 235 properties were resolved (applied for and received permits).

In FY 2020, financial assistance continued to be provided to low income and disadvantaged residents through the Bernalillo County Partners in Improving and Protecting the Environment (PIPE) program, which is a joint Bernalillo County/ABCWUA low-income assistance program to connect homes to ABCWUA water and sewer utilities. The TANK Program provides financial assistance with repair and replacement of on-site wastewater systems (septic tanks) where ABCWUA utilities are not available and is solely a Bernalillo County assistance program. For FY 2020, the PIPE program fully expended its County budget of \$20,000 and the TANK Program nearly expended its full budget of \$60,000. In FY 2020, 11 households were connected to the City sanitary sewer and 24 instances of assistance at 12 separate addresses (any given residence may have received one or more types of assistance including water, sewer, tank abandonment, stub installation and/or payment of Utility Expansion Charges) were completed under the PIPE program. In FY 2020, there were 11 separate addresses that received assistance which included eight system evaluations, two test pits, two drain field replacements, and four total system replacements completed under the TANK program.

Bernalillo County septic outreach and educational materials are available online: <http://www.bernco.gov/public-works/wastewater-septic-systems.aspx> with additional links available on this webpage. Most of the website text and downloadable brochures are also available in Spanish. Additional supporting documentation for these programs is available upon request. Bernalillo County continued evaluation of septic tanks greater than 30 years in age, as required by the amended Wastewater Systems Ordinance: <http://www.bernco.gov/public-works/aging-septic-system-inspections.aspx>.

*Illicit Discharges and Dumping:*

To address targeted controls for Illicit Discharges and Dumping, Bernalillo County's Illicit Detection and Discharge Elimination (IDDE) program includes efforts that target sources of bacteria, trash, and debris, as well as other pollutants. Refer to the SWMP - Table 6: Illicit Discharges and



Improper Disposal and to Section 10.9 of this Annual Report for additional information. Bernalillo County has an Illicit Discharge Detection and Elimination Program plan, an



illegal dumping website page (<http://www.bernco.gov/illegal-dumping>), illegal dumping ordinance, and reporting hotline (505-314-0310) that includes illicit discharge reporting.

*Animal Sources:* Bernalillo County addresses targeted controls for reducing pet waste through its public outreach and educational programs and events. Bernalillo County Ordinance, Chapter 6, addresses animal waste disposal. Animal waste complaints are also addressed through zoning enforcement and special use permit review. In addition, Bernalillo County has 65 pet waste dispensers that it maintains at 37 County locations. Bernalillo County pet waste educational materials are available online on several web pages:

<http://www.bernco.gov/public-works/stormwater-pet-waste.aspx>

<https://www.bernco.gov/poopfairy>

[http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC\\_pet\\_waste\\_fact\\_sheet\\_1.pdf](http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC_pet_waste_fact_sheet_1.pdf)

[http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC\\_pet\\_waste\\_fact\\_sheet\\_2.pdf](http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC_pet_waste_fact_sheet_2.pdf)

[http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC\\_pet\\_waste\\_fact\\_sheet\\_3.pdf](http://www.bernco.gov/uploads/FileLinks/1b856fddafa84b4fa9272b5bd6b5ab41/BC_pet_waste_fact_sheet_3.pdf)

In 2017, Bernalillo County and AMAFCA provided support to UNM Master Student Sergio Lozoya's research project focused on understanding the success of the "There is No Poop Fairy" campaign in Bernalillo County. A literature review helped to formulate community surveys, which were used to measure the reach and influence of the outreach campaign. This campaign, with its short and simple message, was found to be successful within Bernalillo County.

*Residential Education:* Related to resident education as a targeted control for this program, the County utilized a combination of existing and new educational materials (such as the "Project W.E.T. Kids in Discovery Series" and the Enviroscape watershed model), County-created brochures, and promotional items, including pet-waste focused materials from the previous Public Education and Outreach efforts from the prior permit term. Supporting documentation for these programs is available upon request.

The County also used its website and/or social media as a venue for distributing materials and posts about stormwater quality. The County typically has one mailing which is included with ABCWUA water bills to County residents; in FY 2020 the County created and organized this mailing, which was then sent in July 2020. The program also utilized existing County processes to provide education on a neighborhood scale through on-going opportunities such as community and neighborhood association meetings and distribution of information through neighborhood newsletters. In FY 2020, monthly "BernCo at a Glance" newsletters were printed and available electronically (bi-weekly).



In addition, Bernalillo County is a member of the Mid-Rio Grande Stormwater Quality Team (MRGSQT). The MRGSQT outreach efforts are summarized annually in the Summary for Outcomes Report; a copy of this report is included in Attachment 2 (*Note – Outcomes Report is not included with this Draft Annual Report – Outcomes Report was not complete*). Additional information of the MRGSQT outreach efforts is available on their website: <http://www.keeptheriogrand.org/>.

Throughout the reporting period, July 1, 2019 through June 30, 2020, the Bernalillo County Public Outreach and MRGSQT programs were able to connect and educate hundreds of thousands of Bernalillo County Residents. Overall, these educational programs and outreach activities conducted by Bernalillo County and the MRGSQT during this reporting period connected an estimated **TBD** times with County residents. This outreach is estimated from MRGSQT Outcomes Report, Bernalillo County website, monthly newsletters, and various public events results. Additional information is provided in Section 10.11 of this Annual Report and in the Annual Report Annotations, 3. Public Education and Public Participation section of this attachment.

*Business Education:* Related to business education as a targeted control for this program, in FY 2018 - 2019 Bernalillo County, in cooperation with AMAFCA, developed BMP brochures (rack cards) for selected businesses whose operations have the potential to impact stormwater quality in unincorporated Bernalillo County. The purpose of the outreach materials is to educate and promote best management practices to protect stormwater quality. These educational materials are shared with the following business types: automotive repair, printing, carpet cleaning, fueling stations, food preparation or service, parking lots and drive through lanes, landscaping, and contractors' yards.

*Available E. coli Monitoring Data:* AMAFCA, with environmental consultant CDM Smith, completed a "Middle Rio Grande E. coli Analysis and Research" project and report in April 2015. This report assembled data collected by the US Geological Survey (USGS), NMED, and BEMP on E. coli in the Middle Rio Grande – and analyzed this data to develop a larger picture of E. coli in the Rio Grande (Isleta Pueblo boundary to Alameda Street Bridge) segment. This report also compares the Rio Grande, in terms of E. coli, to other rivers. The report addresses the basis of the E. coli water quality standard, provides a summary of findings regarding how the federal objectives were derived, and discusses the applicability of the federally recommended bacteria objectives to waterbodies. Finally, the report describes the Best Management Practices (BMPs) that have been used to remove E. coli from stormwater. The use of warning-type BMPs is examined for possible use in the Albuquerque area.

In FY 2020, Bernalillo County began a Microbial Source Tracking (MST) and Escherichia coli Monitoring in the Rio Grande in the South Valley study with USGS. The objective of this study is to determine the extent and source of bacteria within the impaired reach of the Rio Grande during the dry season. The impaired reach for this study is located



between the USGS gages at Central Avenue, in Albuquerque, to the northern border of the Isleta Pueblo at the I-25 bridge. Sampling will continue through September 30, 2021. USGS has created a [project website](#) for this study. In FY 2020, four dry season sampling events were completed; the data and report have not yet been provided to Bernalillo County.

**Stormwater Monitoring:** Finally, in this program to address targeted controls for E. coli, the County has conducted stormwater monitoring in accordance with Table 10, Wet Weather Monitoring Program, Part III.A.1. The goals and plan for this program are described in the Wet Weather Monitoring Program portion of the SWMP and of this Annual Report (Item 10.13). During this FY 2020 Annual Report reporting period, no additional compliance sampling for the cooperative monitoring program was required. The Compliance Monitoring Cooperative (CMC) collected all seven required samples for the WSB MS4 Permit Wet Weather Monitoring. The CMC also met the required Permit minimum of monitoring three events during the wet season and has obtained one of the two events required in the dry season. In December 2019, the WSB MS4 Permit went into administrative continuance when EPA Region 6 did not issue a new Permit before the expiration date of the existing WSB MS4 Permit. Until a new Permit is issued, no additional compliance sampling for the cooperative monitoring program is required. The E. coli loading and load allocation calculations related to the CMC monitoring program are available upon request for the cooperative monitoring completed in FY 2016 - 2019.

### **10.3 Discharges to Impaired Waters Without Approved TMDLs - Part I.C.2.b.(ii) and TABLE 1.b - TMDL Nutrient Program - Part I.C.2.b.(iii)**

The 2018-2020 State of New Mexico CWA 303(d)/305(d) Integrated List and Report identifies the Tijeras Arroyo Assessment Unit – Four Hills Bridge to Headwaters as impaired for nutrients. A TMDL for nutrients in this assessment unit of the Tijeras Arroyo was approved by the EPA in October 2017. Bernalillo County, in cooperation with COA and NMDOT, continues to voluntarily participate in the Pre-TMDL Cooperative Nutrient Study for Tijeras Arroyo under the NPDES Permit No. NMR04A000. The results of these studies will be used to guide the overall program plan and goals. Samples were collected during dry weather and wet weather events. Results from year five of this study will be submitted to NMED by December 1, 2020.

In FY 2020, public education and outreach targeting fertilizer (nutrient source) continued to be included in several Bernalillo County brochures. Additional supporting documentation is available upon request.

In FY 2020, Bernalillo County continued involvement with the [Tijeras Creek Watershed Collaborative](#) (TCWC) which meets regularly for the purpose of preserving and improving the Tijeras Creek watershed ecological and cultural landscape through public





education and on-the-ground restoration. In FY 2020, the group supported multiple education and outreach activities including workdays with Bernalillo Master Naturalists and Youth Conservation Corps volunteers at the Tijeras Creek Remediation Project; tours of the Tijeras Creek projects; and development of an online interactive GIS map of the watershed. Related to the TCWC, grant funding was received last fiscal year to support the development of a Watershed Based Plan (WBP) for the Upper Tijeras Arroyo Watershed. This WBP is separate from the MS4 Permit regulatory activities but has similar goals and focus, which is to address the root causes of the nutrient impairment that affect the designated uses of the Tijeras creek water within the watershed.

Bernalillo County continued its septic system initiative targeting residents in the East Mountain area and within the Upper Tijeras Arroyo watershed. There are multiple collaborative efforts in the Tijeras Arroyo watershed related to septic system education and outreach. In FY 2020, Bernalillo County, through its involvement with the Mid-Rio Grande Stormwater Quality Team (MRGSQT), continued support of septic system education and outreach. In addition, the Ciudad Soil & Water Conservation District (a partner to Bernalillo County in both the TCWC and the MRGSQT), has septic system education brochures available online and conducts public outreach in the Tijeras area.

#### **10.4 Endangered Species Act (ESA) Requirements - Dissolved Oxygen (DO) Strategy in the Receiving Waters of the Rio Grande - Part I.C.3.a**

For this part of the MS4 Permit, Bernalillo County is providing a summary of findings and activities undertaken under Part I.C.3.a.(i) of the MS4 Permit for FY 2020. The SWMP, originally submitted with the FY 2016 Annual Report and updated and submitted with the FY 2019 Annual Report, also includes descriptions of controls implemented (and/or proposed controls to be implemented) along with corresponding measurable goals. Bernalillo County's Stormwater Management Program (SWMP) Plan is accessible online at: <https://www.bernco.gov/public-works/epa-regulation-of-stormwater-in-bernalillo-county.aspx> or available for review upon request. The current SWMP version is Revision 1, December 2019.

In FY 2020, no specific structural elements, topographical and/or geographical formations, or County operations have been identified as contributing to reduced DO in the receiving waters of the Rio Grande within the jurisdictional area.

Structural elements within County facilities that address potential low DO include a duckbill check valve stormwater outlet for the Sanchez Farms outfall and release of stormwater into the Bosque prior to outfall into the Rio Grande. Where stormwater is released into the Bosque upstream of the Rio Grande, stormwater flows rarely make it to the river and instead spread, slow, and infiltrate in the Bosque. Future projects at Valle de Oro National Wildlife Refuge and McEwen Pond area are planned to address water quality concerns. Improvements to the [Alameda Drain Trail](#) during FY 2020 included water quality BMPs that embrace Green Stormwater Infrastructure/Low Impact



Development (GSI/LID) approaches to help promote biological and physical treatment processes capable of reducing pollutant contributions. Bernalillo County conducted a feasibility study to assess options to improve water quality from the Alameda Storm Drain Outfall into the Rio Grande. The feasibility study included a virtual stakeholder session to share the proposed options and listen to ideas/concerns from the City of Albuquerque, Bernalillo County, Middle Rio Grande Conservancy District (MRGCD), and ABCWUA.

In FY 2020, Bernalillo County continued teaming with USGS, AMAFCA, US Army Corps of Engineers, US Bureau of Reclamation, USEPA, and US Fish & Wildlife Service on a water quality data collection project: “Ecohydrologic and Water Quality Data Collection at Valle de Oro National Wildlife Refuge and the Albuquerque South Valley Community Commons.” The objectives of this project are to: (1) assess the baseline status of water resources prior to site plan implementation at the Refuge and McEwen Pond; (2) characterize changes in the quantity and quality of water that result from site plan implementation; and (3) provide relevant data to stakeholders. In addition, Bernalillo County teamed with USGS on a water quality data collection project: “A Comparison of Water-Quality and Stormwater Inflow and Outflow during and after habitat Restoration at the McEwen Storm Drainage Pond, South Valley, Albuquerque, New Mexico.”

The County also addressed pollutants that have the potential to affect stormwater quality (including pollutants that affect DO levels) in FY 2020 through public education and outreach, the sediment pollutant load reduction strategy, construction and post-construction requirements, pollution prevention and good housekeeping program, and the wastewater permitting process to address and regulate septic systems. See the applicable sections of the Annual Report for additional information.

## **10.5 Endangered Species Act (ESA) Requirements -Sediment Pollutant Load Reduction Strategy - Part I.**

### FY 2020 – Annual Report Progress Report:

This section of the Annual Report serves as Bernalillo County’s annual assessment of the progress of this program. In FY 2020, the County tracked and estimated the volume of sediment removed from each stormwater facility.

Approximately 303 tons of sediment, trash, and vegetation (green waste) was removed from County catch basins, wet wells, storm sewer lines, County ponds, channels, and rights-of-way.

In June 2019, Bernalillo County, along with AMAFCA, COA, and SSCAFCA, took the lead on completing the “Progress Evaluation Report for the Sediment Pollutant Load Reduction Strategy”. This report meets the MS4 Permit requirements for the sediment assessment, baseline sediment loading estimates, monitoring, and program evaluation. This report was included in Bernalillo County’s FY 2019 Annual Report.



## 10.6 Construction Site Stormwater Runoff Control - Part I.D.5.a

### FY 2020 – Annual Report Progress Report:

This section of the Annual Report assesses and documents the success of this program and includes the MS4 Permit required reporting.

The frequency of site reviews = On average, three site inspections are conducted for each project. A minimum of one inspection occurs with as many as five inspections, depending on the duration and complexity of the construction project.

Number of site inspections = TBD

Number of enforcement activities = 0

The cumulative number of site inspections and enforcement activities over the MS4 Permit term are:

Cumulative Number of site inspections = TBD

Cumulative Number of enforcement activities = 3

In FY 2020, there were several opportunities to incorporate GSI/LID/sustainable practices. These opportunities are based on commercial sites permitted (this includes new projects, renovation, tenant improvements, road projects, residential and commercial developments, and units from strip mall areas).

## 10.7 Post-Construction Stormwater Management in New Development and Redevelopment - Part I.D.5.b

The MS4 Permit for this section requires the following information be included in each Annual Report:

Include a summary and analysis of all maintenance, inspections and enforcement, and the number and frequency of inspections performed annually.

Section 7 of the EPA Annual Report Form includes this information for FY 2020.

A cumulative listing of the annual modifications made to the Post-Construction Stormwater Management Program.

In February 2016, Bernalillo County began requiring a Stormwater Post-Construction Evaluation form for all new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale. This form was updated in May 2018 and requires the applicant to evaluate opportunities for the use of Green Stormwater Infrastructure/Low Impact Development (GSI/LID) techniques in the site design. This form is available online at:

<https://www.bernco.gov/uploads/FileLinks/590808d5c7dd4e0cbfaf3009cf1affb9/Stormwater Post Construction Evaluation Form.pdf>

In June 2017, Bernalillo County enacted a stormwater quality ordinance that addresses post construction stormwater management. In December 2017, Bernalillo



County created a Green Infrastructure/Low Impact Development Post-Construction Best Management Practices guide. Post-Construction stormwater management information is available on the County's website at: <https://www.bernco.gov/public-works/post-construction-storm-water-management-new-re-development.aspx>

Report the number of MS4-owned properties and infrastructure that have been retrofitted with control measures designed to control the frequency, volume, and peak intensity of stormwater discharges.

In FY 2018, Bernalillo County completed two projects that included GSI/LID retrofits - Alameda Drain Trial Project and Second Street Southwest improvements. In addition, Bridge Boulevard, which was in designed in FY 2018, includes GSI/LID elements. In FY 2019, Bernalillo County received a grant from the National Recreation and Parks Association Great Urban Parks and through this grant, completed additional Second Street trail improvements including GSI/LID installations, connecting the local community center to Valle de Oro. Cumulatively, during the WSB MS4 Permit term, the County installed an inlet retrofit for the Adobe Acres stormwater facility to improve water quality. The County also included drainage improvements and retrofits with other construction work, such as road improvement projects. The Vista del Rio Road improvement project includes drainage improvements along the public right of way as well as a new detention pond to accommodate additional stormwater runoff volume. Other improvement projects (IP) that are in planning or construction phases that include drainage improvements are the Sunset Road IP, Tower Road SW Roadway and Utility Improvement, Goff Boulevard Improvements, Sunset Gardens Road, and Woodward Road IP, Barcelona Storm Drain Phase 1, intersection of Coors and Blake, among others.

In FY 2020, the County began the process of updating its Technical Standards. Integration of GSI/LID into the Technical Standards and review process was a key focus of this update. In FY 2020, the County continued to meet with local MS4s to discuss areas requiring drainage and water quality retrofits, project priorities, and multi-agency funding. The County's membership and involvement in the cooperative MS4 Technical Advisory Group (MS4 TAG) facilitates this cooperation and coordination with other MS4s in the Middle Rio Grande.

As required in Part I.D.5.b.(vi), report the tabulated results for Impervious Area (IA) and Directly Connected Impervious Area (DCIA) and its estimation methodology.

A GIS study was completed by Bernalillo County to estimate the impervious area (IA) in Bernalillo County and within the Middle Rio Grande MS4 Area/Albuquerque Urbanized Area (UA). Bernalillo County continued working cooperatively on this Permit activity during FY 2020 by sharing GIS information with other MS4s, as requested. The GIS study used land use codes, land use categories, and percent impervious fields.



There was no notable change in the impervious area (IA) for unincorporated Bernalillo County within the UA from FY 2018 to FY 2020, which is approximately 10,393 acres. The directly connected impervious area (DCIA) is 0 acres.

#### **10.8 Pollution Prevention/Good Housekeeping for Municipal/Co-permittee Operations - Part I.D.5.c**

Bernalillo County continued to maintain BMPs in place for minimizing impacts to stormwater quality from the County equipment and vehicle maintenance yards, as well as BMPs that address other County facilities/activities, including maintenance and parks and recreation.

Bernalillo County continued to work cooperatively with the COA to maintain the Household Hazardous Waste Collection Center and continued to conduct public household hazardous waste collection events. Approximately TBD Bernalillo County and TBD City of Albuquerque residents participated in the Hazardous Waste Collection Programs. With this cooperative collection program, over TBD pounds of household hazardous waste were collected; TBD percent of the collected waste was able to be recycled and diverted from the landfill. In addition, approximately TBD Bernalillo County residents participated in the TBD County led Household Hazardous Waste (HHW) weekend collection events. At these neighborhood collection events, TBD pounds of HHW were collected at a cost of \$TBD to Bernalillo County.

Included in this FY 2020 Annual Report, as required by the MS4 Permit, is a cumulative summary of retrofit evaluations conducted during the Permit term on existing flood control devices, structures, and drainage ways to benefit water quality. Refer to Section 10.7 for the cumulative summary of retrofits. Bernalillo County continued to utilize a stormwater control ranking process to schedule and prioritize stormwater projects and continued to incorporate stormwater quality BMPs into all new flood control projects when feasible. In FY 2017 through FY 2020, Bernalillo County participated in AMAFCA-led Project Schedule meetings, where AMAFCA, NMDOT, Bernalillo County, COA, UNM, MRGCD, and Los Ranchos met to discuss and prioritize projects, including ranking of water quality facilities. The results of these meetings were incorporated into the AMAFCA 2020 Project Schedule – Planned Water Quality Facilities report, available on AMAFCA’s website at: <https://www.amafca.org/resources/>. Planning meetings for the AMAFCA 2022 Project Schedule will occur in FY 2021.

Other sections in this Annual Report discuss relevant elements of this Control Measure, including Illicit Discharge and Improper Disposal (Section 10.9), Control of Floatables (Section 10.10), and Public Education and Outreach (Section 10.11).

#### **10.9 Illicit Discharges and Improper Disposal - Part I.D.5.e**

The County continued its education program to promote, publicize, and facilitate public reporting of illicit connections or discharges, and distribution of outreach materials. Additional information is available in the Public Education and Outreach Section, of this



Annual Report. Bernalillo County has an illegal dumping website page (<http://www.bernco.gov/illegal-dumping>), an illicit discharge website page (<http://www.bernco.gov/public-works/illicit-discharge-.aspx>), and a hotline (505-314-0310) that includes illicit discharge reporting. Illicit discharges can also be reported by email to [water@bernco.gov](mailto:water@bernco.gov) and through a web based form available at <https://www.bernco.gov/public-works/report-water-waste.aspx>. Bernalillo County continued to use an electronic database for tracking IDDE complaints.

The County's IDDE Program Plan includes procedures for outfall screening. The timing of outfall screening is important to consider when scheduling field days. Given the arid climate of this region, outfall inspections can be conducted during the wet or dry seasons and should have an antecedent dry period of at least 72 hours after a rain event greater than 0.1 inch in magnitude. Outfall and outlet locations are screened annually in November and December. During annual screening, field personnel will record observations on an outfall monitoring form and collect photographs. If discharges from outfall locations are observed during screening, samples will be collected as described in the IDDE Program Plan.

In FY 2020, the County completed a review of the IDDE complaint records. There were 25 violations that indicated possible illicit discharges or illegal disposal and were categorized as follows: 12 illegal dumping; 10 surfacing sewage; 0 grey water; 3 oil/automotive fluids; 0 fats/oil/grease; and 0 industrial discharges. Of the 25, only one was a repeat violation at the same location within FY 2020. All but five of the violations have been resolved. FY 2020 was a more difficult year to inspect violations due to COVID-19 and social distancing ordinances, which is why more are still under investigation than in prior years. Additional information is available upon request.

As a program enhancement and in conjunction with USGS and AMAFCA, Bernalillo County installed a rainfall gauge in the South Valley at the Westside Community Center in 2007 and in the Upper Tijeras Creek Watershed in 2019, with continued operation in FY 2020, to better understand runoff and evaluate monitoring locations and needs. The County also worked cooperatively with AMAFCA, COA, NMDOT, Village of Los Ranchos, MRGCD, and the ABCWUA (through CMOM) for notification of illicit discharges. The County continued evaluating its Illicit Discharge Detection and Elimination (IDDE) program and is utilizing methodologies consistent with "Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments" as appropriate.

#### **10.10 Control of Floatables Discharges - Part I.D.5.f**

This section of the Annual Report serves as Bernalillo County's annual assessment of the progress of this program. In FY 2020, the County tracked and estimated the volume of floatables and trash removed from each stormwater control facility.



Approximately 303 tons of sediment, trash, debris, and vegetation was removed from County catch basins, wet wells, storm sewer lines, County ponds, channels, and rights-of-way. The removal data is recorded per location and is available upon request.

The composition of floatables and gross pollutants is considered consistent with the updated 2016 AMAFCA/Bernalillo County Gross Pollutant. Using the 2016 study’s waste characterization percentages, qualities of wood, rock (greater than one inch), plastics, metals, and paper were estimated. The waste characterization determination is summarized in the table below:

<b>Trash &amp; Debris Total Volume Removed* (Tons)</b>	<b>Wood, 42.9% (Tons)</b>	<b>Rock &gt; 1", 38.5% (Tons)</b>	<b>Plastic, 16.5% (Tons)</b>	<b>Metals, 1.6% (Tons)</b>	<b>Paper, 0.5% (Tons)</b>
212	91	82	35	3	1

\* The percentages used do not include the sediment amounts found in the Gross Pollutant Study; therefore, the volume of sediment removed is not included in this analysis. The County Stormwater Maintenance estimated that 30% of the 303 tons removed was sediment.

The County Maintenance also reported an estimation of waste characterization. They estimated that 30% was silt/sediment, 25% was green waste, and 45% was debris.

Related, the County Solid Waste Program held several cleanup events and collected TBD CY of trash that was properly disposed of at a landfill. These County cleanup events are another program that supports removal of floatables from the watershed.

#### **10.11 Public Education and Outreach on Stormwater Impacts - Part I.D.5.g**

FY 2020 Public Education and Outreach activities are listed in the table in Section 3 of this Annual Report Annotations. To summarize, throughout the reporting period, July 1, 2019 through June 30, 2020, the Bernalillo County Public Outreach programs were able to connect and educate thousands of Bernalillo County Residents. Overall, these educational programs and outreach activities conducted by Bernalillo County and the MRGSQT during this reporting period connected an estimated TBD times with County residents. This outreach is estimated from the Bernalillo County website, monthly newsletters, mailing inserts, and various public events results.

The County uses its Bernalillo County Greenprint website highlighting for its community-driven conservation plan (<http://web.tplqis.org/bernco/>). The purpose of the Greenprint is to guide where public funds should be spent to protect open space and farmland and expand access to local parks and trails throughout Bernalillo County. The Story Map allows users to see the areas and efforts that protect water quality in rivers and streams. The mapping portal provides an online interactive map of County water quality infrastructure. As part of the Greenprint process, areas where natural recharge occurs



within the Rio Grande Basin were mapped. These areas are considered high priority areas for protection in the Greenprint.

The County continued to utilize a combination of existing and new educational materials (such as the “Project W.E.T. Kids in Discovery Series” and the Enviroscape watershed model), County-created brochures, and/or other educational materials and promotional items. The County also uses its website and social media as a venue for distributing materials and posts about water quality. Additional documentation related to these materials is available upon request.

In FY 2018 and FY 2019, Bernalillo County and AMAFCA worked cooperatively to create BMP brochures (rack cards) for specific industries (Contractors, Food Preparation or Service, Parking Lots and Drive Through Lanes, Fueling Stations, Vehicle and Equipment Repair, and Landscaping). These brochures were created in both English and Spanish and were continued to be provided to businesses in FY 2020. Examples of these educational and outreach brochures are available upon request.

In FY 2020 the County created an informational insert about how individuals can contribute positively to water quality. The insert was mailed to 210,000 households in July 2020, when this could be fit into the ABCWUA mailing schedule. The County aims to generate one mailing (possibly electronic format) per year to residents of unincorporated Bernalillo County addressing one or more of the following topics on a rotating basis: illicit discharge reporting, proper disposal of household hazardous waste including lawn and garden chemicals and used motor oil, FOG, animal sources/pet wastes, litter control, and public participation in the MS4 process. The County provided monthly “BernCo at a Glance” newsletters to residents (mailed and electronic delivery) which also focused on pet waste and stormwater education. Additional documentation is available upon request.

The Valle de Oro National Wildlife Refuge represents a significant local riparian restoration area for the County for stormwater education and outreach. In FY 2020, the County continued to sponsor activities to educate and involve members of the community about local riparian restoration and clean-up opportunities at the refuge.

Bernalillo County is actively involved in supporting education and outreach to students in the area through sponsorship and involvement in school-based programs. Through a partnership with Ciudad Soil and Water Conservation District, Bernalillo County promoted the involvement of 1,668 students in the RiverXchange and Arroyo Classroom programs. These programs focus on educating students on a variety of topics including local habitats, watersheds, stormwater, and water use, through hands-on activities and field trips. The students involved in the program learn about the impact their personal decisions have on their local water system and actions they can take to make this impact positive.



Bernalillo County has started using training videos through Excal Visual, Inc. for Pollution Prevention/Good Housekeeping and Illicit Discharge and Detection Trainings. These trainings are required for new employees and annually for select existing employees. In FY 2020, TBD employees received this training.

#### **10.12 Public Involvement and Participation - Part I.D.5.h**

The County continued to provide public accessibility of the current SWMP and Annual Report online via the Internet and during normal business hours at the Bernalillo County Public Works main office for public inspection and copying consistent with any applicable federal, state, tribal, or local open records requirements. Bernalillo County adhered to the MS4 Public Notice requirements in Part III.B and provided at least 45-days public notice for this draft Annual Report, allowing public input to be considered before submitting the final Annual Report.

Bernalillo County reviewed the program requirements listed in Public Involvement and Participation Control Measure of the MS4 Permit for the program elements during the Annual Report process. In addition, as part of the Annual Report process, the Stormwater Program Manager reviewed the program requirements and determined that the overall existing program is effective. Some of the MS4 Permit requirements in this section overlap with the Public Education and Outreach Control Measure (refer to Section 10.11 in this report). For example, opportunities to utilize volunteers and assessment of public behavioral change following a public education event are part of the Public Education and Outreach program.

Bernalillo County continued to include in its public involvement and participation program: funding groups such as Valle de Oro National Wildlife Refuge (NWR), Bernalillo County Master Naturalist Program, Rocky Mountain Youth Corps programs, and the Bosque Ecosystem Monitoring Program (BEMP). The County also provided an IDDE hotline reporting phone number and website. In addition, the County is a member of the [Water Protection Advisory Board \(WPAB\)](#), allowing involvement with the ABCWUA, the COA, other Board participants, and the public.

#### **10.13 Wet Weather Monitoring Program - Part III.A.1**

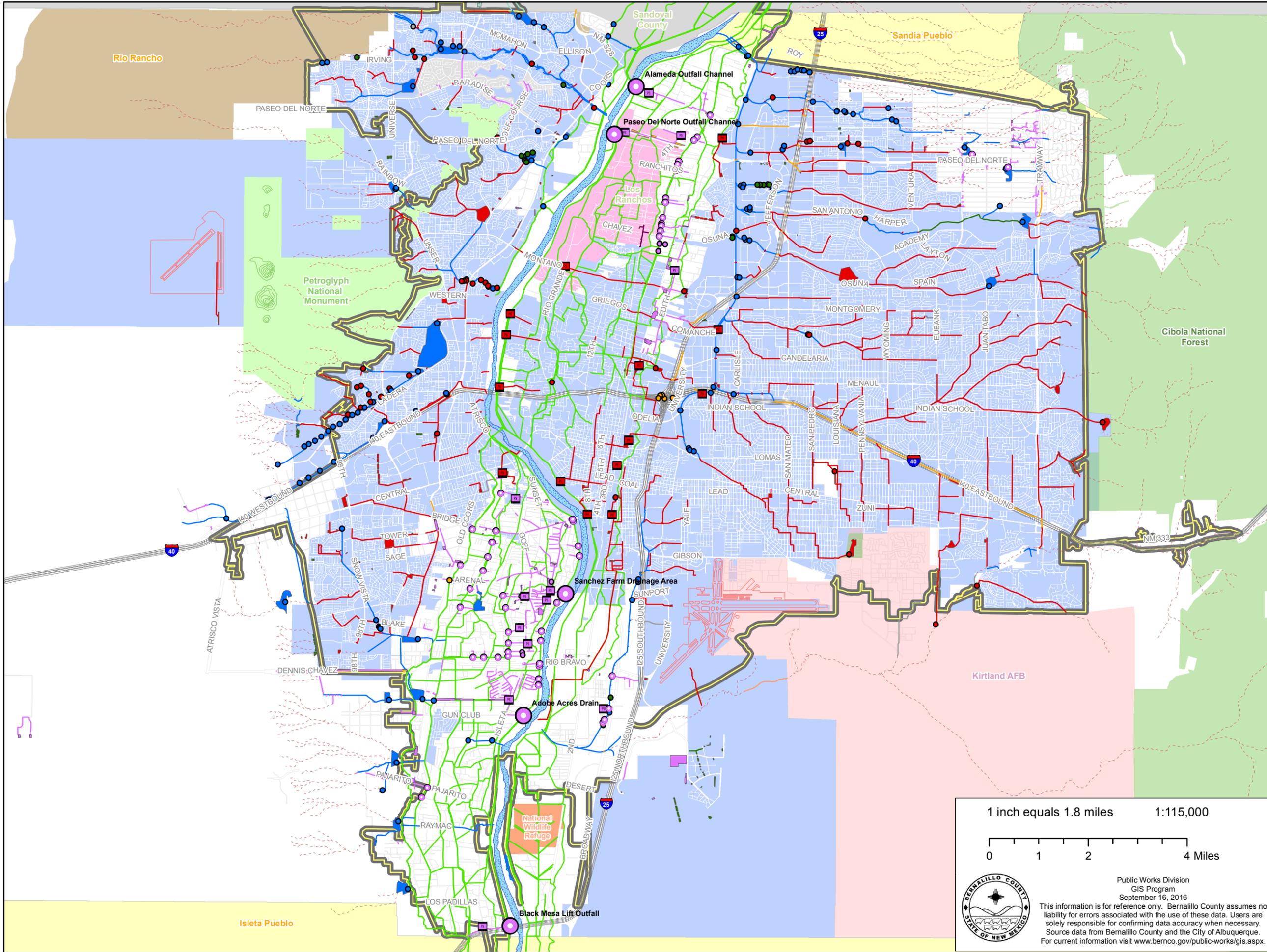
During this FY 2020 Annual Report reporting period, no additional compliance sampling for the cooperative monitoring program was required. The Compliance Monitoring Cooperative (CMC) collected all seven required samples for the WSB MS4 Permit Wet Weather Monitoring. The CMC also met the required Permit minimum of monitoring three events during the wet season and has obtained one of the two events required in the dry season. In December 2019, the WSB MS4 Permit went into administrative continuance when EPA Region 6 did not issue a new Permit before the expiration date of the existing WSB MS4 Permit. Until a new Permit is issued, no additional compliance sampling for the cooperative monitoring program is required.



*County of Bernalillo*  
*State of New Mexico*  
*Natural Resource Services*

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**Attachment 1**  
**Bernalillo County Stormwater Facilities Map**



**Bernalillo County Stormwater**

- BC Stormwater Outfalls
- BC Outlets
- Pump Stations**
- BC
- COA
- Water Quality Features**
- AMAFCA
- AMAFCA/SSCAFCA
- BC
- COA
- NMDOT
- PRIVATE
- PRIVATE/AMAFCA
- UNKNOWN
- Drainage**
- NATURAL ARROYOS
- AMAFCA
- AMAFCA/MRGCD
- BC
- BC or AMAFCA
- COA
- MRGCD
- NMDOT
- PRIVATE
- SSCAFCA
- USFS
- VLR
- UNKNOWN
- Drainage Ponds**
- AMAFCA
- AMAFCA/CORRALES
- BC
- COA
- NMDOT
- PRIVATE
- SSCAFCA
- VLR
- UNKNOWN
- Cibola National Forest
- Petroglyph National Monument
- National Wildlife Refuge
- Tribal Lands
- Kirtland Air Force Base
- Urbanized Area
- Bernalillo County
- City of Albuquerque
- Los Ranchos de Albuquerque
- Paradise Hills
- Rio Rancho
- Sandoval County

1 inch equals 1.8 miles      1:115,000

Public Works Division  
GIS Program  
September 16, 2016

This information is for reference only. Bernalillo County assumes no liability for errors associated with the use of these data. Users are solely responsible for confirming data accuracy when necessary. Source data from Bernalillo County and the City of Albuquerque. For current information visit [www.bemco.gov/public-works/gis.aspx](http://www.bemco.gov/public-works/gis.aspx).



*County of Bernalillo*  
*State of New Mexico*  
*Natural Resource Services*

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## **Attachment 2**

### **MRGSQT Outcomes Report**

*Note – Outcomes Report is not included with this Draft Annual Report –  
Outcomes Report was not complete*