

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

City of Rio Rancho

Name of MS4

Xavier Pettes NPDES Project Manager
 Name of Contact Person (First) (Last) (Title)

(505) 891-5045 xpettes@rrnm.gov
 Telephone (including area code) E-mail

3200 Civic Center Circle NE

Mailing Address

Rio Rancho New Mexico 87144
 City State ZIP code

What size population does your MS4(s) serve? 87,521 NPDES number NMR04A007

What is the reporting period for this report? (mm/dd/yyyy) From Jul 1, 2015 to Jun 30, 2016

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	
		Yes	No	Yes	No
Rio Grande NM-2105.1_00	E. coli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rio Grande NM-2105.1_00	PCB in fish tissue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rio Grande NM-2105.1_00	PCB in water column	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rio Grande NM-2105.1_00	Gross Alpha	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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?

Pet waste, household hazardous waste, sediment, floatables, illicit discharges

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, floatables, illicit discharges

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.

See attached - Middle Rio Grande Stormwater Quality Team Outcomes Report

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.

Private and public construction sites are inspected in accordance with the current construction general permit. At least once every 7 calendar days; or once every 7 days and within 24 hours of the occurrence of a storm event of 0.25 inches 

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

If Yes, based on what criteria?

Construction sites grading within or adjacent to a watercourse defined as a major facility.

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 checked="" type="checkbox"/> Yes | Notice of violation | <input type="text" value="1"/> | No Authority | <input type="checkbox"/> |
| <input checked="" 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"/> | No Authority | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Civil penalties | <input type="text" value="0"/> | No Authority | <input type="checkbox"/> |
| <input type="checkbox"/> Yes | Criminal actions | <input type="text"/> | No Authority | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Yes | Administrative orders | <input type="text"/> | 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?

CGP violations: (inadequate perimeter control, concrete washout, stabilized construction entrance/exit).

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.

Spill concerns located near outfalls are investigated immediately. Outfall Dry Weather Screening is conducted annually.

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).

Parks management practices for maintenance including fertilizer, pesticides and herbicide application. Park maintenance including trash pickup and disposal. Park operations including proper storage, containment and clean up.

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?

Facilities near or adjacent to a watercourse defined as a major facility.

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?

As needed and for new hires.

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?

All new and re-development projects are reviewed for minimum requirement for stormwater/water quality per City ordinance and development process manual.

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.)?

All new and re-development projects are reviewed for minimum requirement for stormwater/water quality per City ordinance and development process manual.

- 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.

<http://www.rnm.gov/DocumentCenter/View/5889>

- 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="General Fund"/> | 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
See Attached	Public Education and Outreach/Public	Signed Agreement
See Attached	Wet Weather Monitoring	Signed Agreement
See Attached	Technical Advisory Group	Signed Agreement

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
E.coli	2016	See attached monitoring sche	2
PCB's	2016	See attached monitoring sche	2
Gross Alpha	2016	See attached monitoring sche	2

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.

<http://www.keeptheriogrand.org/wp-content/uploads/2016/10/Summary-2015-2016-Outcomes-Report.pdf>

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



David Serrano, P.E., Engineering Division Manager

12/01/2016

Name of Certifying Official, Title

Date (mm/dd/yyyy)



October 14, 2016

TO: The Mid Rio Grande Stormwater Quality Team

FROM: Patti Watson, President
CWA Strategic Communications

RE: Summary for Outcomes Report – July 1, 2015-June 30, 2016 for Mid Rio Grande Stormwater Quality Team Public Education and Involvement

The following is a summary of public education and outreach during the previous fiscal year. Additional information is included in the chart and reports following this summary.

Total spent on public education and outreach (excluding RiverXchange and B.E.M.P): \$33,306.19
Total donated by communications subcontractor, CWA Strategic Communications: \$712.20

Website (www.keeptheriogrand.org)

Total Visitors: 3,318
Total New Visitors: 2882 (86.9%)

Facebook Page
Total Likes: 134

Community Events

Total Number of Events: 42
Total Number of Attendees/Participants: 36,510

Materials Distribution

Total number of pieces distributed and estimated number of people reached: 3,315

RiverXchange

Total number of children participating: 1,150
Total number of adults participating: 82

Bosque Ecosystem Monitoring Project (B.E.M.P)

Total number of children participating: 1,804
Total number of adults participating: 291

Advertising Campaigns on Proper Disposal of Fats, Oils & Grease

Total number of estimated people reached: 1,841,784 with duplication

Educational Kiosk at Albuquerque Public Library

Total number of people reached: 30,000
Total number of people reading article about kiosk 60,000

Total number of estimated people reached (with duplication): [1,510,749](#)

MS 4 Permit Category	Activities	Audience(s)
Pet Waste	<ul style="list-style-type: none"> • Information on Project Website & Facebook Page • Mountain West Brew Fest • Toss No Mas Rio Rancho Cleanup Event • Rolling River Educational Presentation • Festival in the Valley • City of Rio Rancho Children's Water Festival • America Recycles Day • Pilot Educational Program on Scoop the Poop • Earth Force Trios Engaging Youth in the Health of the Middle Rio Grande • KOB TV Health & Wellness Fair • Copper Trailhead Cleanup • Embudo Canyon Trailhead Cleanup • Menaul Picnic Area Cleanup • Earth Day Event – Rio Rancho • MS 4 Permit Presentation to AWWA Rocky Mountain Section • Keep Rio Rancho Beautiful Great American Cleanup • MS4 Watershed Based Permit Presentation at WEFTEC • National River Cleanup • Abrazos – A Celebration of Environmental Justice • Piedra Lisa Open Space Cleanup • Presentation on Middle Rio Grande watershed at MS4 Summit • Route 66 Open Space Cleanup • Survey among AMAFCA Staff during SMP training • Village of Los Ranchos Domestic Animal Waste Reduction Program • Educational Kiosk at Albuquerque Public Library • RiverXchange • Bosque Ecosystem Monitoring Project (B.E.M.P) 	Children, Adults and Industry
Animal Sources	<ul style="list-style-type: none"> • Rolling River Educational Presentation • RiverXchange • Bosque Ecosystem Monitoring Project (B.E.M.P) • Earth Force Trios Engaging Youth in the Health of the Middle Rio Grande • MS 4 Permit Presentation to AWWA Rocky Mountain Section • MS4 Watershed Based Permit Presentation at WEFTEC • Presentation on Middle Rio Grande watershed at MS4 Summit • Local Children Get Wild About Watersheds • Survey among AMAFCA Staff during SMP training 	Children, Adults and Industry
Household Hazardous Waste	<ul style="list-style-type: none"> • Information on Project Website & Facebook Page • Mountain West Brew Fest • Toss No Mas Rio Rancho Cleanup Event • Festival in the Valley • America Recycles Day • Earth Force Trios Engaging Youth in the Health of the Middle Rio Grande • KOB TV Health & Wellness Fair • Earth Day Event – Rio Rancho • Keep Rio Rancho Beautiful Great American Cleanup • MS 4 Permit Presentation to AWWA Rocky Mountain Section • MS4 Watershed Based Permit Presentation at WEFTEC • Abrazos – A Celebration of Environmental Justice • Presentation on Middle Rio Grande watershed at MS4 Summit • Survey among AMAFCA Staff during SMP training 	Children, Adults and Industry

	<ul style="list-style-type: none"> • City of Albuquerque Household Hazardous Waste Collection • Great American Cleanup – Town of Bernalillo 	
MS 4 Permit Category	Activities	Audience(s)
General SWP	<ul style="list-style-type: none"> • Information on Project Website & Facebook Page • Local Children Get Wild About Watersheds • SSCAFCA Facilities Tour • Mountain West Brew Fest • Toss No Mas Rio Rancho Cleanup Event • Rolling River Educational Presentation • Festival in the Valley • Albuquerque 2030 District Sustainability Initiative at CNM • Water Resources Management in the Rio Grande Briefing • City of Rio Rancho Children's Water Festival • America Recycles Day • Kayak New Mexico River Cleanup on the Rio Grande • City of Albuquerque Tree Planting at Academy of Trades & Technology • Arroyo Classroom Program • Students Achieve for Excellence Program • Earth Force Trios Engaging Youth in the Health of the Middle Rio Grande • KOB TV Health & Wellness Fair • Keep Rio Rancho Beautiful Tree Steward Training • Tree Seedling Giveaway with Keep Rio Rancho Beautiful • Copper Trailhead Cleanup • Embudo Canyon Trailhead Cleanup • Menaul Picnic Area Cleanup • Earth Day Event – Rio Rancho • Keep Rio Rancho Beautiful Campus Cleanup Contests • Keep Rio Rancho Beautiful Great American Cleanup • National River Cleanup • Abrazos – A Celebration of Environmental Justice • Piedra Lisa Open Space Cleanup • Route 66 Open Space Cleanup • Survey among AMAFCA Staff during SMP training • Educational Kiosk at Albuquerque Public Library • RiverXchange • Bosque Ecosystem Monitoring Project (B.E.M.P) • Great American Cleanup – Town of Bernalillo 	Children and Adults
Septic & Sanitary Sewer Systems	<ul style="list-style-type: none"> • Albuquerque Bernalillo County Water Utility Authority 2015 Holiday Fats, Oils and Grease Disposal campaign • City of Rio Rancho 2015 Holiday Fast, Oils and Grease Disposal campaign 	Adults (specifically women 25+)
Illicit Discharges	<ul style="list-style-type: none"> • CNM Source Control educational program • Information available on Project Website & Facebook Page • RiverXchange • Bosque Ecosystem Monitoring Project (B.E.M.P) • Earth Force Trios Engaging Youth in the Health of the Middle Rio Grande • Water Quality Cleanup of the North Pino • Stormwater Management Plan Training 	Adults
Construction	<ul style="list-style-type: none"> • Information available on Project Website & Facebook Page 	Adults



September 21, 2016

TO: The Mid Rio Grande Stormwater Quality Team

FROM: Patti Watson, President
Phyllis Baker, Lead Account Executive
CWA Strategic Communications

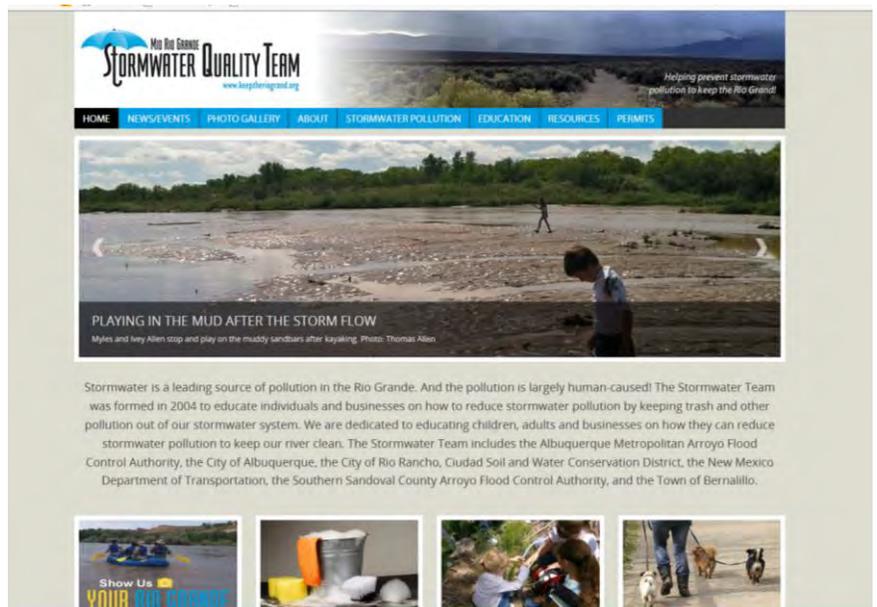
RE: Outcomes Report for first half of 2016 – Mid Rio Grande Stormwater Quality Team
Public Education and Involvement

During the second half of 2016 the Mid Rio Grande Stormwater Quality Team (MRGQST) continued its educational partnerships with the Bosque Ecosystem Monitoring Program (B.E.M.P.) and RiverXchange. The team continued to post relevant information to its website and Facebook page, and also participated in a number of high-profile community events, including the KOB TV Health & Wellness Fair in January 2016. The team publicly launched its interactive kiosk with a news conference at the Downtown ABC Library's Children's Room in February. Finally, Team partners and supporters disseminated information on stormwater through municipal water quality reports to stakeholders. Specialty advertising giveaways relating to stormwater quality awareness were reordered for use at public events. The overall budget spent on these activities, excluding donated hours by team members and RiverXchange and B.E.M.P., was \$14,692.50. The contractor, CWA Strategic Communications, donated \$302.30 in services during the first half of the 2016 calendar year. We have summarized the activities below and on the following pages:

Website (www.KeepTheRioGrande.org)

The website received fewer visits in the first half of 2016 than it did in 2015 (see *statistics chart on next page*). The percentage of new visitors rose slightly (to 87.2%) during this period compared to last period (86.03%).

The vast majority of visitors continue to utilize their desktops to access the website, versus tablets or mobile phones.



MRGSQT Website Analytics	Jan. 1-June 30, 2016	July 1-Dec. 31, 2015	Total for 2015-2016 Fiscal Year
Total Visitors	1,152	2,166	3,318
New Visitors	1,004	1,878	2,882
iPhone/Smart Phone	73	94	167
iPad/Tablet	18	23	41
Desktop	1,061	2,049	3,110
Other Mobile Device	0	0	0

A detailed Google Analytics Report is included as an attachment to this report, labeled Appendix M.

Estimated number of individuals reached by this activity: 1,152

Permit Reference(s): General SWP, Construction, Pet Waste, Construction, Household Hazardous Waste

Audience(s): Children, Adults

Facebook Page

In conjunction with the SQT website, a Facebook page contains posts and updated information at:

(<https://www.facebook.com/Keeptheriogrand>). Total “likes” for the page increased from 131 to 134 during the first half of January 2016, a 2 percent increase.

Estimated number of individuals reached by this activity: 134

Permit Reference(s): General SWP, Construction, Pet Waste

Audience(s): Children, Adults

Events

In the second half of 2016, MRGSQT members and their partner agencies reported participating in a total of 24 community outreach/educational events. Details are below.

1. SSCAFCA

Catherine Conran

September 2015-May 2016

Educational Arroyo Classroom Program for 1st and 3rd Graders that teaches children about natural arroyos, how they are affected by stormwater runoff and when and how to safely enjoy arroyos.

714 Attendees*

Permit Reference(s): General SWP

Audience(s): Children,

2. SSCAFCA & City of Rio Rancho

Catherine Conran & David Serrano

January-June 2016

Keep Rio Rancho Beautiful tree steward volunteers volunteered approximately 2,262 hours to clean up and beautify parks and open spaces in that community.

58 Attendees

Permit Reference(s): General SWP

Audience(s): Children, Adults



3. City of Albuquerque

Household Hazardous Waste Collection

January-June 2016

The City of Albuquerque accepts dropped off household hazardous waste including paint, batteries, fluorescents, and solvents and other types of HHW throughout the year. For more information, see *Appendix D*.

6,470 Attendees

Permit Reference(s): Household Hazardous Waste

Audience(s): Children, Adults

4. Sandoval County

Household Hazardous Waste Collection

January-June 2016

Regular events are scheduled for area residents to drop off antifreeze, fluorescents, aerosols, flammable liquids, paints, flammable toxic liquids and solids, acids, corrosive bases and more. In the first six months of 2016, the program collected a 4.35 tons (8,700 pounds) of household hazardous waste. For more information, see *Appendix E*.

143 Attendees

Permit Reference(s): Household Hazardous Waste

Audience(s): Children, Adults

5. KOB TV Health & Wellness Fair

Mid Rio Grande Stormwater Quality Team

January 23 & 24, 2016

The Mid Rio Grande Stormwater Quality Team hosted an information booth at this community event. Some 515 visitors who stopped by the booth filled out a survey. See *Appendix N* for survey results.

7,100 Attendees

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults

6. SSCAFCA

Catherine Conran

March 19, 2016

Partnering with Keep Rio Rancho Beautiful, SSCAFCA promoted a tree seedling giveaway to help increase the tree count in that community.

120 Attendees

Permit Reference(s): General SWP

Audience(s): Children, Adults

7. City of Albuquerque

Kathy Verhage

April 2, 2016

The City's Parks & Recreation Department hosted a cleanup at Copper Trailhead. Volunteers picked up 45 pounds of dog poop, ½ bag of mixed recycling and one bag of trash.

32 Attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

8. City of Albuquerque

Kathy Verhage

April 9, 2016

The City's Parks & Recreation Department hosted a cleanup at Embudo Canyon Trailhead at Indian School. Volunteers picked up 95 pounds of dog poop, 1.5 bags of mixed recycling, 5 gallon buckets of broken glass, and 2 bags of trash

54 Attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

9. City of Albuquerque

Kathy Verhage

April 16, 2016

The City's Parks & Recreation Department hosted a cleanup at the Menaul Picnic Area. Volunteers picked up 49 pounds of dog poop, ½ bag of mixed recycling, and 1 bag of trash

33 Attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

10. AMAFCA

Patrick Chavez

April 21, 2016

AMAFCA (the Albuquerque Metropolitan Arroyo Flood Control Authority) took part in a Water Quality Cleanup of the North Pino organized by CH2M Hill that gathered 20 bags of trash.

12 Attendees

Permit Reference(s): General SWP

Audience(s): Adults



11. SSCAFCA & City of Rio Rancho

Catherine Conran & David Serrano

April 23, 2016

A community-wide Earth Day Event was held to raise awareness of environmental issues, including stormwater runoff quality and ways to prevent stormwater pollution.

300 Attendees

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults

12. SSCAFCA

Catherine Conran

April 29, 2016

SSCAFCA made a presentation on the MS4 Permit to the Rocky Mountain Section of the American Water Works Association

30 Attendees

Permit Reference(s): Pet Waste, Animal Sources, Household Hazardous Waste, Illicit Discharge, Construction

Audience(s): Industry

13. SSCAFCA

Catherine Conran

May 7, 2016

SSCAFCA participated in the Great American Clean up Campus Contests, which involved schools throughout the middle Rio Grande.

3,384 Attendees

Permit Reference(s): General SWP

Audience(s): Children

14. SSCAFCA

Catherine Conran

May 7, 2016

SSCAFCA also participated in the volunteer community-wide Keep Rio Rancho Beautiful Great American Clean Up

1,200 Attendees

Permit Reference(s): General SWP, Household Hazardous Waste

Audience(s): Children, Adults

15. Town of Bernalillo

Maria Rinaldi

May 7, 2016

The Town of Bernalillo hosted a Great American Cleanup that included a clothing and recycling drive, a free half-day of dumping, and car and truck loads of waste at a town dumpster location. The event collected 180 cubic yards of trash.

214 Attendees

Permit References: General SWP, Household Hazardous Waste

Audience(s): Children, Adults

16. SSCAFCA

Catherine Conran

May 11, 2016

SSCAFCA made a presentation on the MS4 watershed-based permit at the WEFTEC (Water Environment Federation) conference

113 Attendees

Permit Reference(s): Pet Waste, Animal Sources, Household Hazardous Waste, Illicit Discharge, Construction

Audience(s): Industry

17. SSCAFCA & City of Rio Rancho

Catherine Conran & David Serrano

May 14, 2016; May 21, 2016 and May 28, 2016

SSCAFCA and the City of Rio Rancho participated in three training sessions for tree stewards

45 Attendees

Permit Reference(s): General SWP

Audience(s): Adults



GREAT AMERICAN CLEANUP
KEEP AMERICA BEAUTIFUL
TOWN OF BERNALILLO

**Saturday May 7th
8 a.m. to 2 p.m.**

In-Town Dumpster Location:
585 Calle Chaparral, Bernalillo, NM
Town of Bernalillo Public Works Yard
(The gates will be open from 8 a.m. until 2 p.m.)
We will accept truck and carloads only. Cars and/or trucks pulling trailers will not be allowed to dump into the dumpsters and will be directed to the Landfill.



DUE TO LANDFILL REGULATIONS, WE WILL NOT ACCEPT: REFRIGERATORS, FREEZERS, ICE MAKERS, TIRES, LARGE DRUMS, MEDICAL WASTE, PAINT, ASBESTOS MATERIALS, CONTAMINATED SOIL, HAZARDOUS WASTE-LIQUID, BATTERIES OR RAILROAD TIES.

FREE 

FREE 1/2 Day of Dumping
FREE 1/2 Day (7:00 a.m. to 12 noon) Dumping at the Sandoval County Landfill in Rio Rancho. Proof of Bernalillo residency will be required.

E-Recycling & Clothing Drive
9 a.m.—1:00 p.m.
Santa Ana Star Casino
54 Jemez Dam Rd.
Bernalillo, NM



Most e-waste items accepted free of charge. TVs will not be accepted.

18. City of Albuquerque

Kathy Verhage

May 21, 2016

The City's Parks & Recreation Department hosted a cleanup at National River at Central NW. Rafter collected 12 bags mixed recycling; 6 bags of glass, filled one half of a trash compactor

110 Attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

19. Mid Rio Grande Stormwater Quality Team

Patrick Chavez, Maria Rinaldi, Catherine Conran and Maria Rinaldi

May 21, 2016

Abrazos – A Celebration of Environmental Justice

The Mid Rio Grande Stormwater Quality Team had an informational booth at this community festival celebrating environmental justice at the national wildlife refuge. Visitors were given information on stormwater quality and preventing stormwater pollution. A total of 88 people filled out surveys. See *Appendix O for survey results.*

100 Attendees

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults



20. City of Albuquerque

Kathy Verhage

May 23, 2016

The City's Parks & Recreation Department hosted a cleanup at Piedra Lisa Open Space. Volunteers picked up 28 pounds of dog poop, 3 bags of mixed recycling, 2 bags of trash, and 2.5 gallon buckets of broken glass

63 Attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

21. SSCAFCA

Catherine Conran

May 27, 2016

SSCAFCA made a presentation on the Middle Rio Grande watershed at the Statewide MS4 summit

41 Attendees

Permit Reference(s): Pet Waste, Animal Sources, Household Hazardous Waste, Illicit Discharge, Construction

Audience(s): Industry

22. City of Albuquerque

Kathy Verhage

May 27, 2016

The City's Parks & Recreation Department hosted a cleanup at Route 66 Open Space. Volunteers picked up 8 bags mixed recycling; 10 gallon buckets of broken glass and 4 bags of unbroken glass

31 Attendees

Permit Reference(s): General SWP

Audience(s): Children, Adults

23. AMAFCA

Patrick Chavez

June 9, 2016

During a Stormwater Management Plan Training, the stormwater engineer conducted a survey among participants about their awareness of and support for initiatives to reduce stormwater pollution. A total of 21 people filled out the survey. See Exhibit P for survey results.

21 Attendees

Permit Reference(s): General SWP, Pet Waste, Animal Sources, Household Hazardous Waste, Illicit Discharge, Construction

Audience(s): Industry

24. Village of Los Ranchos Domestic Animal Waste Reduction Program

Timothy McDonough

January-June 2016

The Village of Los Ranchos posts signs, "doggie waste clean-up bags," and waste receptacles along Village Trails in Open Space and along acequias and ditches which have pedestrian trails. Currently there are 15 "doggie waste clean-up stations." Over the period of this report, 3,130 pounds of pet waste were collected from these stations and deposited in the permitted landfill.

625 Attendees

Permit Reference(s): Pet Waste

Audience(s): Children, Adults

**Half-year allocation from a program lasting an entire school year (two semesters).*

Estimated number of individuals reached by these public education campaigns (with duplications): 21,013

General Materials Distribution

As appropriate, team members distribute materials at events. While the MRGSQT is focusing less on printed collateral pieces and more on community outreach through partnerships and participation in community events, we have included inventories of materials on hand as of January 1, 2016 through June 30, 2016.

MRGSQT Item	1/1/2016 Quantity	6/30/2016 Quantity	Distributed	Cost of Materials Distributed
Scoop the Poop Bumper Sticker	0	0	0	\$0.00
Keep the Rio Grand Bumper Sticker	1,728	1,228	500	\$105.00
Keep the Rio Grand Brochure	527	0	0	\$0.00
Keep the Rio Grand Home Brochure	494	111	383	\$134.05
New Dog or Cat Brochure	3,675	3,470	205	\$61.50
Scoop the Poop Rack Card	237	0	0	\$0.00
MRGSQT Notepad	0	0	0	\$0.00
TOTAL	6,661	4,809	1,088	\$300.55

Total estimated number of people reached by this activity: 1,088

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults

Educational Activities

Educational Kiosk at the Children's Library at the Main Albuquerque Public Library Albuquerque.



On February 18, 2016, the Mid Rio Grande Stormwater Quality Team held a press conference at the Children's Library at the Main Albuquerque Public Library to unveil its new educational kiosk.

The kiosk features:

- An **interactive stormwater system map** where children can press various points to learn the roles arroyos and channels play in the stormwater system and how to keep from polluting that system. The system stretches from Bernalillo on the north through Rio Rancho and into Albuquerque.

- A **"Scoop the Poop" game** that lets children choose one of three dogs and learn how to properly pick up after that dog. This is important, according to the MRGSQT, because pet waste is a major source of *E coli* contamination in the Rio Grande.
- An **educational panel on common types of trash, debris and chemicals that pollute the Rio Grande** including appliances and electronics, automotive products such as oil, batteries and gasoline, glass and cement, household cleaners, yard waste, prescription and over-the-counter medicines.
- A **touch screen** that includes facts about each arroyo and the Rio Grande.

The *Albuquerque Journal* did a story on the kiosk that appeared in the state's largest newspaper the next day. See *Appendix Q* for a copy of that article.

Total number of children and adults viewing the kiosk from February 18-June 30, 2016: 30,000

Total number of estimated readers for article on the kiosk in the *Albuquerque Journal*: 60,000

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults

Students and Teachers Reached through Partner Educational Programs – RiverXchange and Bosque Ecosystem Monitoring Program (B.E.M.P.)

RiverXchange is an innovative, long-term outreach program that integrates water resource topics with computer technology, student writing, and a hands-on curriculum to meet specific, measurable outcomes. Since 2007, the program has enabled upper elementary classes from New Mexico to become "high tech pen pals" with a class outside the state to share what they learn about the geography, culture, and ecology of their local river and watershed. Including these partner classes, we have served over 14,000 students! Each student spends about 25 hours engaged with the program over the course of the school year. The curriculum incorporates hands-on activities, multiple classroom presentations by local water resources. A total of 82 adults and 1,150 students in New Mexico participated in the program. For more information, see *Appendix R, RiverXchange's 2015-2016 report to the Mid Rio Grande Stormwater Quality Team*.

The main objective of the Stormwater Science outreach education program of the Bosque Ecosystem Monitoring Program (B.E.M.P.) is to teach students that the health of the Rio Grande is directly related to the health of the surrounding watershed. The Stormwater Science program includes a one and one-half hour classroom activity, and a 4-5 hour study trip to the Rio Grande. During the 2015-2016 school year 1,804 students participated in Stormwater Science activities in their classrooms, in the field or both. Also, 291 adults

participated. The one and one-half hour classroom program was delivered to 955 students in 34 classrooms at 18 different schools in Bernalillo, Rio Rancho, Albuquerque, Los Lunas and Socorro. See Exhibits S and T for the BEMP Report on the 2015-2016 school year and its Stormwater Science report.

Total estimated number of people reached by these educational activities: 93,327

Permit Reference(s): General SWP, Pet Waste, Animal Sources, Household Hazardous Waste, Illicit Discharges

Audience(s): Children, Adults

Total Number of People Reached through All Advertising, Educational and Public Outreach Activities during first half of 2016

Obviously, some people were reached by more than one activity, but in gross numbers an estimated [206,714](#) people were reached with a stormwater quality/stormwater pollution prevention message during the first half of 2016.



Amended October 13, 2016

TO: The Mid Rio Grande Stormwater Quality Team

FROM: Patti Watson, President
Phyllis Baker, Lead Account Executive
CWA Strategic Communications

RE: Outcomes Report for second half of 2015 – Mid Rio Grande Stormwater Quality Team
Public Education and Involvement

During the second half of 2015 the Mid Rio Grande Stormwater Quality Team (MRGQST) continued its educational partnerships with the Bosque Ecosystem Monitoring Program (B.E.M.P.) and RiverXchange. The team continued to post relevant information to its website and Facebook page, and also participated in a number of high-profile community events. In addition, the team completed fabrication of its interactive educational kiosk and finalized an agreement to place the kiosk in the Downtown ABC Library's Children's Room. Finally, Team partners and supporters planned and implemented public education advertising campaigns on the proper disposal of FOG (Fats, Oils and Grease) during the holiday season. The overall budget spent on these activities, excluding donated hours by team members and RiverXchange and B.E.M.P., was \$18,613.69. The contractor, CWA Strategic Communications, donated \$409.90 in services during the second half of the 2015 calendar year. We have summarized the activities below and on the following pages:



Website (www.keeptheriogrand.org)

The website received 42.8% more total visitors visits in the second half of 2015 than it did in the first six months of the year (see statistics chart on next page). There was also a 37.6% increase in unique visitors. The majority of visitors (86.03%) were new visitors to the site.

MRGSQT Website Analytics	July 1-Dec. 31, 2015	Jan. 1-June 30, 2015
Total Visitors	2,166	1,517
Unique Visitors	1,818	1,321
New Visitors	1,878	86.03%
iPhone/Smart Phone	94	102
iPad/Tablet	23	36
Desktop	2,049	1,379
Other Mobile Device	0	138
Top Referring Sites	Traffic2money.com/referral (312) webmassters.org/Referral (307); Google (297); best-seo-software.xyz/referral (235); direct (213); traffimonetizer.org/referral (96); ranksonic.net/referral (95)	Google (450); direct (313) www.1.social-buttons.com (205); sernault.sernalt.com (140) buttons-for-website.com (104); bing (25); Facebook (22)

A detailed Google Analytics Report is included as an attachment to this report, labeled Appendix A.

Estimated number of individuals reached by this activity: 2,166

Permit Reference(s): General SWP, Construction, Pet Waste

Audience(s): Children, Adults

Facebook Page



In conjunction with the SQT website, a Facebook page contains posts and updated information at: (<https://www.facebook.com/Keeptheriogrand>). Total “likes” for the page increased from 121 to 131 during the second half of 2015, an 8 percent increase.

Estimated number of individuals reached by this activity: 131

Permit Reference(s): General SWP, Construction, Pet Waste

Audience(s): Children, Adults

Events

In the second half of 2015, MRGSQT members reported participating in a total of 18 community outreach/educational events. Details are on the following pages.

1. City of Albuquerque

Household Hazardous Waste Collection

July-December 2015

The City of Albuquerque accepts dropped off household hazardous waste including paint, batteries and solvents and other types of HHW throughout the year. For a summary table on this program, see *Appendix D*.

5,488 Attendees

Permit Reference(s): Household Hazardous Waste

Audience(s): Children, Adults

2. Sandoval County

Household Hazardous Waste Collection

July-December 2015

Regular events are scheduled for area residents to drop off antifreeze, fluorescents, aerosols, flammable liquids, paints, flammable toxic liquids and solids, acids, corrosive bases and more. In the first six months of 2016, the program collected a 4.48 tons (8,960 pounds) of household hazardous waste. For more information on this program, see *Appendix E*.

165 Attendees

Permit Reference(s): Household Hazardous Waste

Audience(s): Children, Adults

3. City of Albuquerque

Kathy Verhage

July 21, 2014

The City of Albuquerque partnered with The Nature Conservancy to host "Local Children Get Wild About Watersheds," a two-hour interactive lesson about watersheds and how they connect people, plants and animals at the Paradise Hills Community Center. The event featured the "rolling river" model, water cycle models and included children in the 5th through the 8th grades. *A media alert for the event is included as Appendix B.*

105 attendees

Permit Reference(s): General SWP, Illicit Discharges, Pet Waste

Audience(s): Children

4. Southern Sandoval Arroyo Flood Control Authority

Catherine Conran

August 17, 2015

The Southern Sandoval Arroyo Flood Control Authority (SSCAFCA) conducted a tour of its facilities for students attending Central New Mexico Community College.

25 attendees

Permit Reference(s): General SWP

Audience(s): Adults

5. Mid Rio Grande Stormwater Quality Team

Mountain West Brew Fest

September 5 and 6, 2015

The Stormwater Team had a booth at this inaugural two-day community festival, which included craft beers from 50 local and regional breweries, food, and continuous live entertainment. The team also administered 362 surveys. A report of the results is included with this report in *Appendix C*.

5,800 attendees

Permit Reference(s): General SWP, Household Hazardous Waste, Pet Waste

Audience(s); Children, Adults

6. SSCAFCA

Toss No Mas Rio Rancho clean up event

September 12, 2015

The Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) participated in a community-wide cleanup.

280 attendees

Permit Reference(s): General SWP, Household Hazardous Waste, Pet Waste

Audience(s); Children, Adults

7. Ciudad Soil & Water Conservation District

Steve Glass

September 18, 2015

Education presentations on stormwater pollution reduction using the "rolling river" at the A Montoya Elementary School and Roosevelt Middle School at a Watershed Fair.

433 attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s); Children



8. Stormwater Team

Festival in the Valley

September 19, 2015

The Stormwater Team had a booth at this community event, which featured a farmer's market, chile roasting, traditional music and dancing and works from local artisans. An estimated total of 200 individuals stopped by the booth to visit and 81 filled out survey cards. A report of the results is included in *Appendix F*.

200 attendees

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s); Children, Adults

9. Ciudad Soil & Water Conservation District

Steve Glass

October 7, 2015

Central New Mexico students and faculty learned about source control in preventing stormwater pollution and affixed markers to several storm drain inlets around campus as part of the Albuquerque 2030 District sustainability initiative. Photos documenting this event are included with this report in *Appendix G*.

22 attendees

Permit Reference(s): General SWP, Septic & Sanitary Sewer Systems

Audience(s); Adults

10. Ciudad Soil & Water Conservation District

Steve Glass

October 8, 2015

Central New Mexico students attended a briefing on water resources management in the Rio Grande and watched an educational film about the San Juan-Chama project on YouTube.

10 attendees

Permit Reference(s): General SWP

Audience(s); Adults

11. Stormwater Team

City of Rio Rancho Children's Water Festival
October 26, 2015

The Stormwater Team staffed an activity station with interactive exercises and information on the stormwater drainage system and how children can prevent stormwater pollution and provided information packets to participating teachers.

1,542 attendees

Permit Reference(s): General SWP, Pet Waste

Audience(s): Children, Adults

12. SSCAFCA

November 14, 2015

The Southern Sandoval County Arroyo Flood Control Authority participated in America Recycles Day Rio Rancho. Participants in the event removed over 1,697,340 pounds of trash from 113 miles and over 21 acres of open space, parks and arroyos including 60 illegal dump sites

200 attendees

Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste

Audience(s): Children, Adults

13. Kayak New Mexico

November 21, 2014

A Stormwater Team partner, Kayak New Mexico, launched its inaugural River Cleanup on the Rio Grande, collecting nearly 1,500 pounds of trash and debris from the river in just two hours. The stormwater team posted the results of this activity on its Facebook page.

14 attendees

Permit Reference(s): General SWP

Audience(s): Children, Adults



14. City of Albuquerque

December 17, 2016

The City of Albuquerque sponsored a Parks & Recreation Department program planting 20 whip trees and 5 New Mexico olive trees at the Academy of Trades & Technology charter school as part of an initiative to increase the indigenous tree count and reduce erosion in our community.

7 attendees

Permit Reference(s): General SWP

Audience(s): Children, Adults

15. SSCAFCA

July 1-December 31, 2015

Arroyo Classroom Program

Ongoing program educates third graders and their teachers in the SSCAFCA's district about arroyos – what they are, what role they play in stormwater runoff and recreation and how to be safe in and around arroyos.

286 attendees

Permit Reference(s): General SWP

Audience(s): Children

16. SSCAFCA

July 1-December 31, 2015

Pilot Educational Program on Scoop the Poop

A test program was launched in the second half of 2015 to educate interested individuals, shelters, rescue groups, kennels and pet-related organizations on proper disposal of pet waste.

50 attendees

Permit Reference(s): Pet Waste

Audience(s): Adults

17. City of Rio Rancho & SSCAFCA

July 1-December 31, 2015

Students Achieve for Excellence (SAFE)

Educational program on a variety of curricula including stormwater runoff and prevention of stormwater pollution reaching mixed elementary school classes and their teachers.

370 attendees

Permit Reference(s): General SWP

Audience(s): Children

18. City of Albuquerque

Kathy Verhage

2015

In partnership with the Earth Force Neighborhood Environmental Trios Engaging Youth in the Health of the Middle Rio Grande, a community-wide educational program involving partners from the U.S. Fish & Wildlife Service, Amigos Bravos, the Middle Rio Grande Urban Waters ambassador, the Friends of the Valle de Oro and other stakeholders, a variety of educational and hands-on programs that involved a total of 472 students were planned and implemented that involved water quality testing and education on issues surrounding water quality in in river and its impact on the community. *See Appendix H for a report on this project.*

500 Attendees

Permit Reference(s): General SWP, Pet Waste, Animal Sources, Household Hazardous Waste

Audience(s): Children

Estimated number of individuals reached by events and public outreach: 15,497

Public Education Campaign on Proper Disposal of Fats, Oils & Grease

In November and December 2015, both the Albuquerque Bernalillo County Water Utility Authority (a Stormwater Team supporter) and the City of Rio Rancho (a Stormwater Team member) planned and implemented public education campaigns on how to dispose of cooking grease properly. The campaigns were timed to coincide with the holiday cooking season (Thanksgiving through Christmas).

The **Albuquerque Bernalillo County Water Utility Authority** campaign included:

- **Radio** – A total of 568 30-second radio spots reaching an estimated audience of 277,900 with duplications
- **Television** – A total of 1,354 30-second television spots reaching an estimated audience of 472,342 with duplications
- **Digital Outdoor Boards** – 10 digital boards running in November and December (5 each month) reaching an estimated audience of 310,227 adults (18 years of age and older) with duplication
- **Bill inserts** – Two bill inserts Water Authority bills reaching an estimated audience of 210,000 with duplication
- **Social Media** -- Two Sponsored Facebook Stories with 7,452 views and 952 shares
- **Point of Purchase** -- 102 Johnny Boards (billboards in public restrooms) reaching an estimated 101,250 people with duplications

The **City of Rio Rancho** campaign included:

- **Print advertisements** – five small space print advertisements in the Rio Rancho Observer reaching an estimated audience of 250,000 with duplications
- **Outdoor Boards** – a total of four outdoor boards running two weeks in November and December reaching an estimated audience of 212,613 individuals 18 years of age and older with duplications.

Copies of some of the print materials produced for the Albuquerque Bernalillo County Water Utility Authority Campaign are included in *Appendix I*. Copies of some of the materials produced for the City of Rio Rancho campaign are included in *Appendix J*.

Estimated number of individuals reached by these public education campaigns (with duplications): 1,282,244

**Permit Reference(s): Septic & Sanitary Sewers
Audiences: Adults**

General Materials Distribution

As appropriate, team members distribute materials at events. While the MRGSQT is focusing less on printed collateral pieces and more on community outreach through partnerships and participation in community events, we have included inventories of materials on hand as of the beginning of July 2015 and at the end of the year.

MRGSQT Item	6/30/2015 Quantity	12/31/2015 Quantity	Distributed	Cost of Materials Distributed
Scoop the Poop Bumper Sticker	323	0	323	\$67.83
Keep the Rio Grand Bumper Sticker	2,874	1,728	1,146	\$240.66
Keep the Rio Grand Brochure	527	527	0	\$0.00
Keep the Rio Grand Home Brochure	494	494	0	\$0.00
New Dog or Cat Brochure	3,675	3,675	0	\$0.00
Scoop the Poop Rack Card	237	237	0	\$0.00
MRGSQT Notepad	758	0	758	\$379.00
TOTAL	8,394	6,661	2,227	\$687.49

Total estimated number of people reached by this activity: 2,227

**Permit Reference(s): General SWP, Pet Waste, Household Hazardous Waste
Audiences: Children, Adults**

Educational Programs

Students and Teachers Reached through Partner Educational Programs – RiverXchange and Bosque Ecosystem Monitoring Program (B.E.M.P.)

Because the RiverXChange Program spans a full school year, we are reporting all students and teachers reached for this period. A total of 82 adults and 1,150 students in New Mexico participated in the program. For more information, see *Appendix J*, RiverXchange’s mid-year report to the Mid Rio Grande Stormwater Quality Team.

Unlike the RiverXChange Program, which works with specific classrooms throughout the year, the Bosque Ecosystem Monitoring Program (B.E.M.P.) schedules 1.5-hour sessions at individual classrooms throughout the school year and also provides field experiences. Therefore for the first six months we report that B.E.M.P. reached a total of 512 students and 26 adults during the first half of the school year, from July-December 2015. More information is available in *Appendix K*, BEMP’s mid-year report to the Mid Rio Grande Stormwater Quality Team.

Total estimated number of people reached by these activities: 1,770

**Permit Reference(s): General SWP, Pet Waste, Illicit Discharges, Animal Sources
Audiences: Children**

Total Number of People Reached through All Advertising, Educational and Public Outreach Activities during second half of 2015

Obviously, some people were reached by more than one activity, but in gross numbers an estimated [1,304,035](#) people were reached with a stormwater quality/stormwater pollution prevention message during the first half of 2016.

List of Appendices

- Appendix A - Google Analytics Report – July-December 2015*
- Appendix B - Local Children Get Wild About Women Media Alert*
- Appendix C – Survey Results Mountain West Brew Fest*
- Appendix D – City of Albuquerque Household Hazardous Waste Summary*
- Appendix E – Sandoval County Household Hazardous Waste Report FY 2015-2016*
- Appendix F – Festival in the Valley Survey Results*
- Appendix G – CNM Source Control Public Outreach Event Project (photos)*
- Appendix H – Earth Force Neighborhood Environmental Trios Report*
- Appendix I – ABCWUA FOG Campaign Materials*
- Appendix J – City of Rio Rancho FOG Campaign Materials*
- Appendix K – RiverXchange Mid-Year Report*
- Appendix L – B.E.M.P Mid-Year Report*
- Appendix M – Google Analytics Report – January-June 2016*
- Appendix N – KOB TV Health & Wellness Survey Results*
- Appendix O – Abrazos Valle de Oro Survey Results*
- Appendix P – AMAFCA Storm Management Plan Training Survey Results*
- Appendix Q – Albuquerque Journal article on Educational Kiosk*
- Appendix R – Final RiverXchange Report*
- Appendices S&T – Final B.E.M.P. Report and Science Summary*

Report

Jul 1, 2015 - Dec 31, 2015

 All Sessions
100.00%

Pageviews and Unique Pageviews ...

Page	Pageviews	Unique Pageviews
/	2,427	1,818
/bosque-ec o-system-m onitoring-pr oject/	68	52
/storm-team -files/	59	17
/residents/	58	54
/interactive- map/	56	34
/scoop-the- poop-2/	55	43
/mrgsqt-out comes-form /	51	19
/stormwater -quality-tea m/	51	41
/category/n ews/	49	30
/permits/	44	24

Sessions and % New Sessions by Browser

Browser	Sessions	% New Sessions
Chrome	1,144	89.60%
Firefox	241	80.08%
Internet Explorer	216	79.17%
YaBrowser	208	89.90%
Opera	207	86.47%
Safari	107	79.44%
Mozilla Compatible Agent	14	100.00%
Edge	10	50.00%
(not set)	9	100.00%
Mozilla	4	100.00%

Sessions and % New Sessions by Device Category

Device Category	Sessions	% New Sessions
desktop	2,049	87.21%
mobile	94	77.66%
tablet	23	78.26%

Sessions and % New Sessions by User Type

User Type	Sessions	% New Sessions
New Visitor	1,878	100.00%
Returning Visitor	288	0.00%

Sessions and % New Sessions by ...

Source / Medium	Sessions	% New Sessions
traffic2money.com / referral	312	91.67%
4webmasters.org / referral	307	95.77%
google / organic	297	82.15%
best-seo-software.xyz / referral	235	91.06%
(direct) / (none)	213	84.04%
trafficmonetizer.org / referral	96	94.79%
ranksonic.net / referral	95	89.47%
website-analyzer.info / referral	89	91.01%
claim4721691.copyrightclaims.org / referral	72	0.00%
seo-platform.com / referral	65	98.46%

Sessions and % New Sessions by ...

Mobile Device Info	Sessions	% New Sessions
Apple iPhone	53	73.58%
Apple iPad	14	85.71%
(not set)	9	77.78%
Samsung SCH-i545 Galaxy S4	4	50.00%
Google Nexus 5	3	66.67%
Mozilla Firefox for Android	2	50.00%
Samsung GT-I9060M Galaxy Grand Neo Plus	2	100.00%
Samsung SM-G900A Galaxy S5	2	50.00%
Samsung SM-G920T Galaxy S6	2	100.00%
Samsung SM-N900V Galaxy Note 3	2	100.00%

July 20, 2015

For Immediate Release

Contact Tracey Stone at tstone@tnc.org

Local Children Get Wild about Watersheds

[ALBUQUERQUE] One hundred children – grades 5 through 8 – are getting a wild lesson in watersheds, which play a critical role in the water we drink. As part of the Rio Grande Water Fund, The Nature Conservancy and its partners will educate young people about the connection between forests and water. The Rio Grande Water Fund is designed to leverage public/private funding to increase the scale and scope of forest restoration along the Rio Grande and its tributaries from Taos to Albuquerque. Healthy forests help prevent catastrophic fires and subsequent damaging floods, protecting water, people and wildlife.

Media members are invited to cover the hands-on “Wild about Watersheds” program, led by Krista Bonfantine of Arid Land Innovation, LLC.

WHO	100 children in grades 5 th through 8 th
WHAT	Interactive lessons about watersheds and how they connect people, plants and animals. Healthy watersheds and forests protect our water and quality of life
WHEN	Tuesday, July 21, from 9:30 – 11:30 a.m.
WHERE	Paradise Hills Community Center 5901 Paradise Blvd, Albuquerque, NM 87114
WHY	To teach children about the connection between forests, watersheds and the water we drink. Healthy watersheds and forests help soak up storm water and prevent soil erosion and pollutants from making their way to waterways. The more children know about nature, the more they’ll care.
VISUALS	<ul style="list-style-type: none"> • Rolling River trailer with watershed including urban area, a farm & more • Children manipulating the Rolling River model • Children using models to explore the components of the water cycle • Children observing tree samples to understand the relationship between forests and water
DETAILS	Rio Grande Water Fund goals, plans, graphics, photos and stories can be found at nature.org/riogrande
PARTNERS	Arid Land Innovation, LLC, Ciudad Soil and Water Conservation District

Media interested in covering the education program, please RSVP Tracey Stone at tstone@tnc.org

###



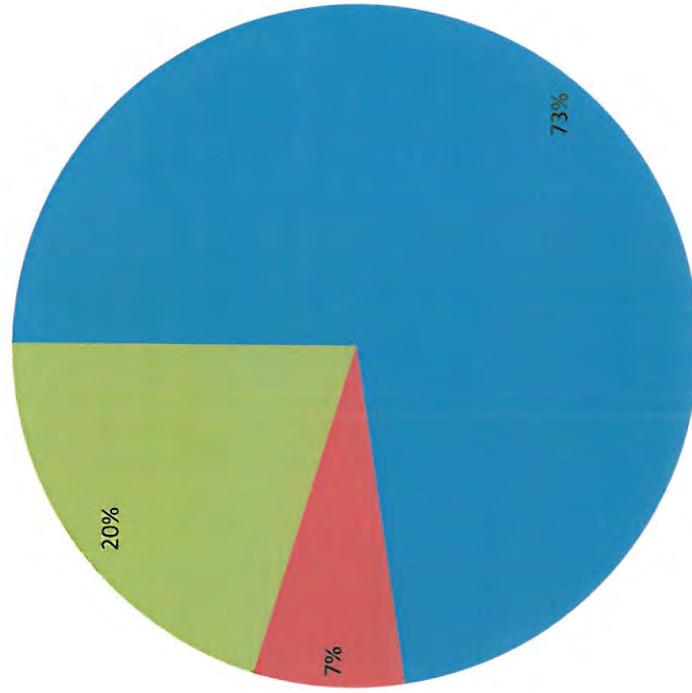
Rio Grande Water Quality Survey Results - 9/6/2015

The Mid Rio Grande Storm Water Quality Team organized a short survey addressing various water quality issues affecting the Rio Grande. This survey was conducted on September 9, 2015 as part of a public outreach initiative during the Mountain West Brew fest in Bernalillo County. Depending on the question, an average of 356 people responded to each question given a total of 362 respondents. The following graphics reflect the tallied results of the 10-question voluntary questionnaire. Future surveys are planned at upcoming regional events to provide a comparative baseline.

Do you think that storm water runoff affects the quality of water in the Rio Grande?

(353 total respondents)

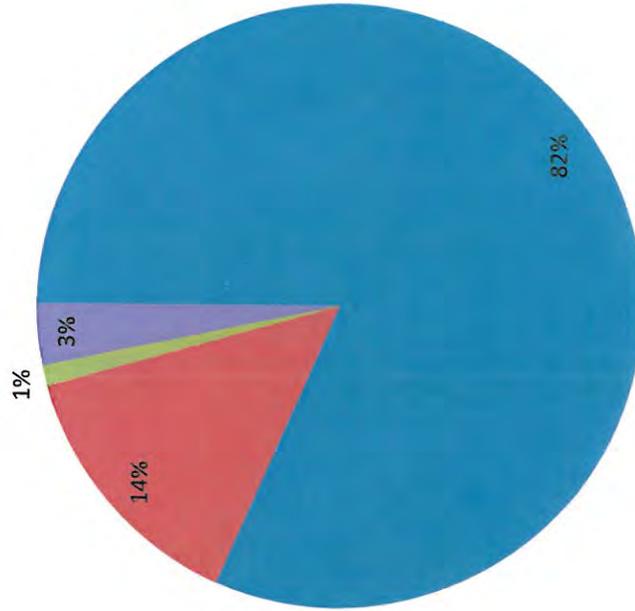
- Yes
- No
- Unsure



Would you be willing to pick up after your dog/pet and dispose of waste in the trash to improve the quality of storm water runoff?

(361 total respondents)

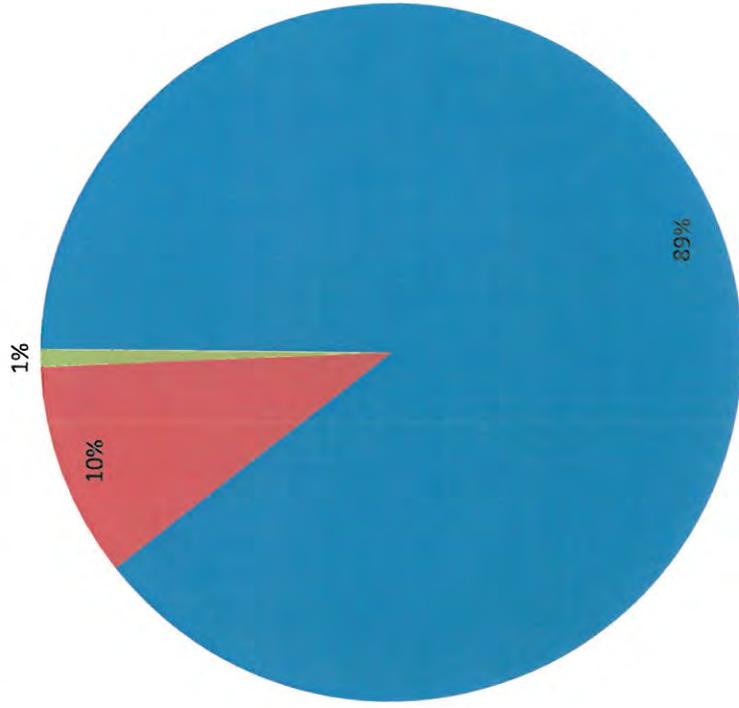
■ Currently Do ■ Will Do ■ Won't Do ■ N/A



Would you be willing to reduce, reuse and recycle trash to improve the quality of storm water runoff?

(362 total respondents)

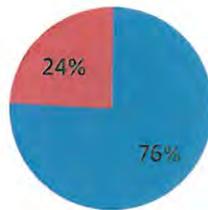
■ Currently Do ■ Will Do ■ Won't Do



Would you be willing to pay an additional minor monthly fee on your water bill to improve the quality of storm water runoff?

(350 total respondents)

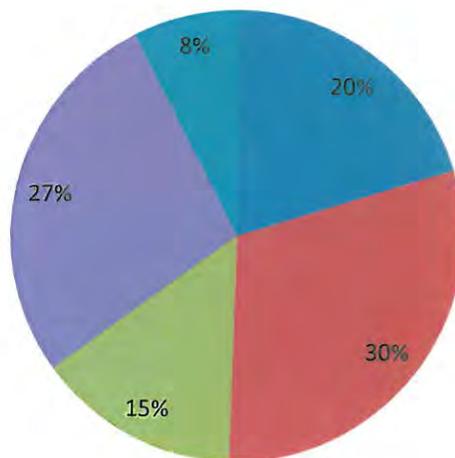
■ Would Do ■ Won't Do



If answered "Would do", how much would you be willing to pay?

(262 total respondents)

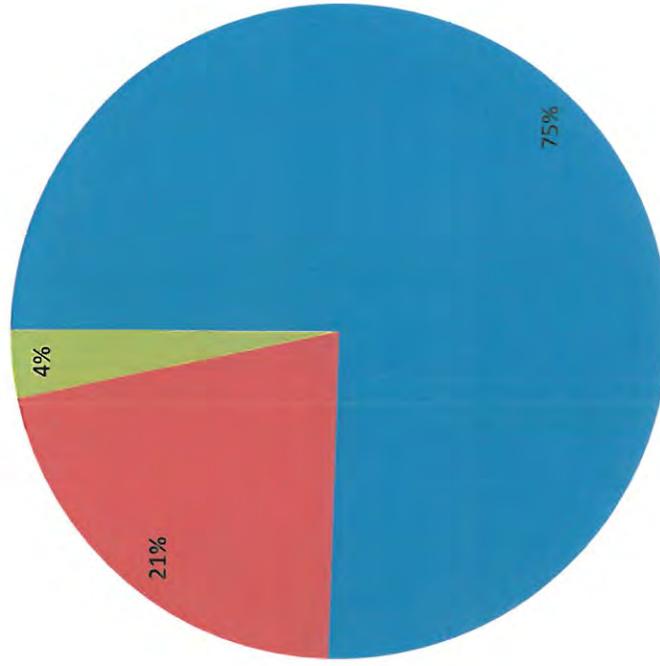
■ \$1 ■ \$2 ■ \$3 ■ \$5 ■ >\$5



Would you be willing to reduce use of toxic chemicals outdoors to improve the quality of storm water runoff?

(353 total respondents)

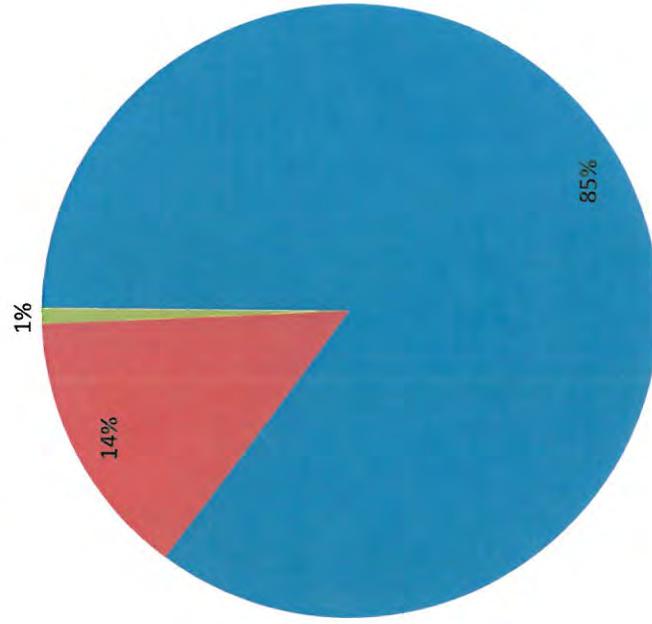
■ Currently do ■ Will Do ■ Won't Do



Would you be willing to fix oil leaks on cars or trucks to improve the quality of storm water runoff?

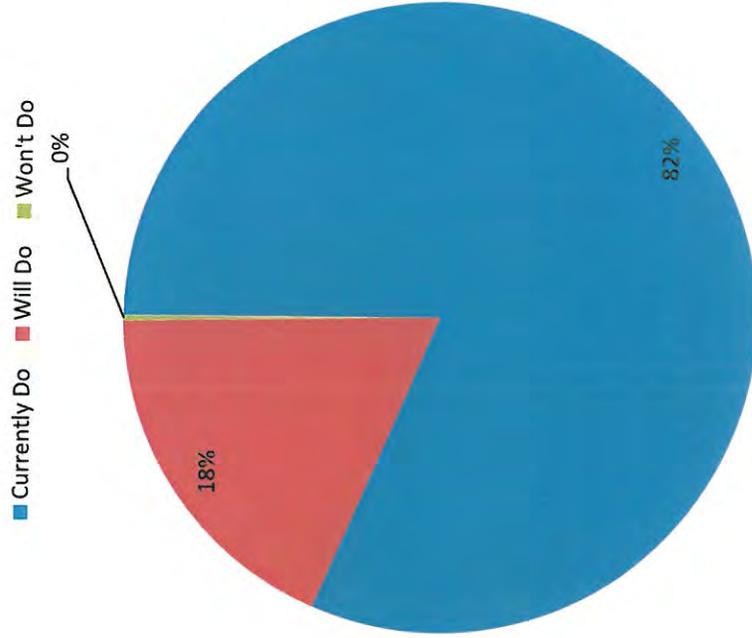
(354 total respondents)

■ Currently Do ■ Will Do ■ Won't Do



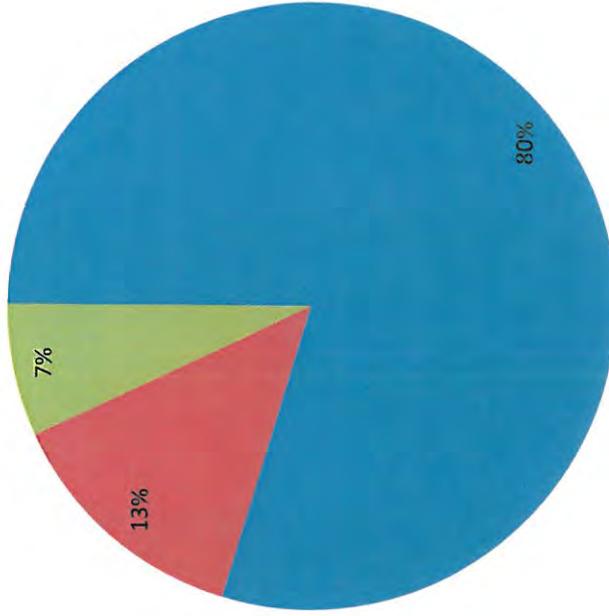
Would you be willing to dispose of household hazardous waste properly at a collection facility or during a recycling event to improve the quality of storm water runoff?

(356 total respondents)



Would you be willing to wash your vehicle(s) at a full or self-service car wash to improve the quality of storm water runoff?
(353 total respondents)

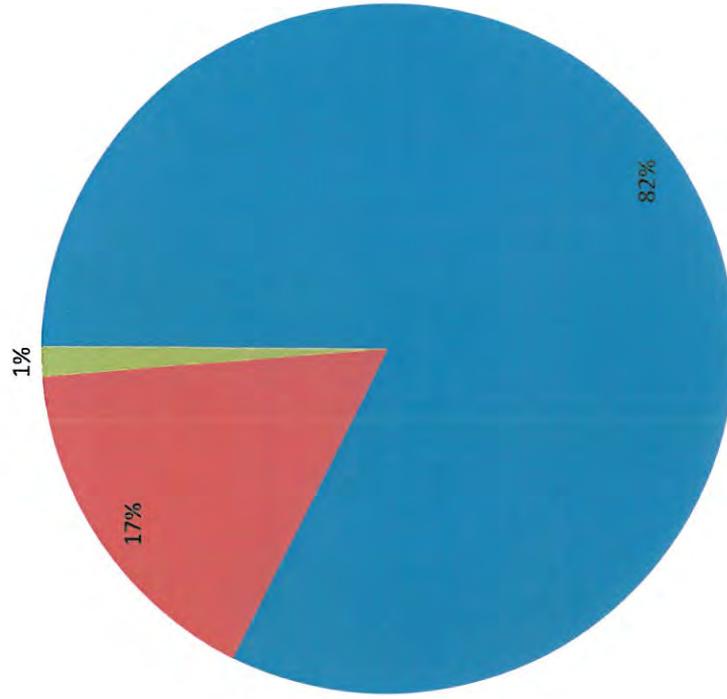
■ Currently Do ■ Will Do ■ Won't Do



Would you be willing to keep chemicals and trash out of street gutters to improve the quality of storm water runoff?

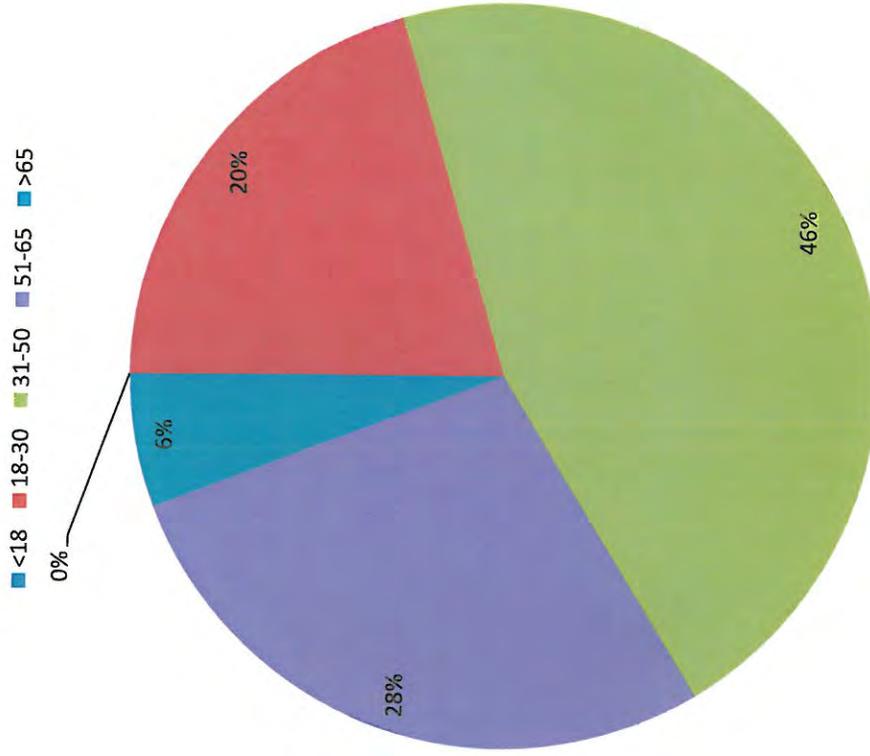
(353 total respondents)

■ Currently Do ■ Will Do ■ Won't Do



Age Category of Survey Respondent in Years

(362 total respondents)



Comments

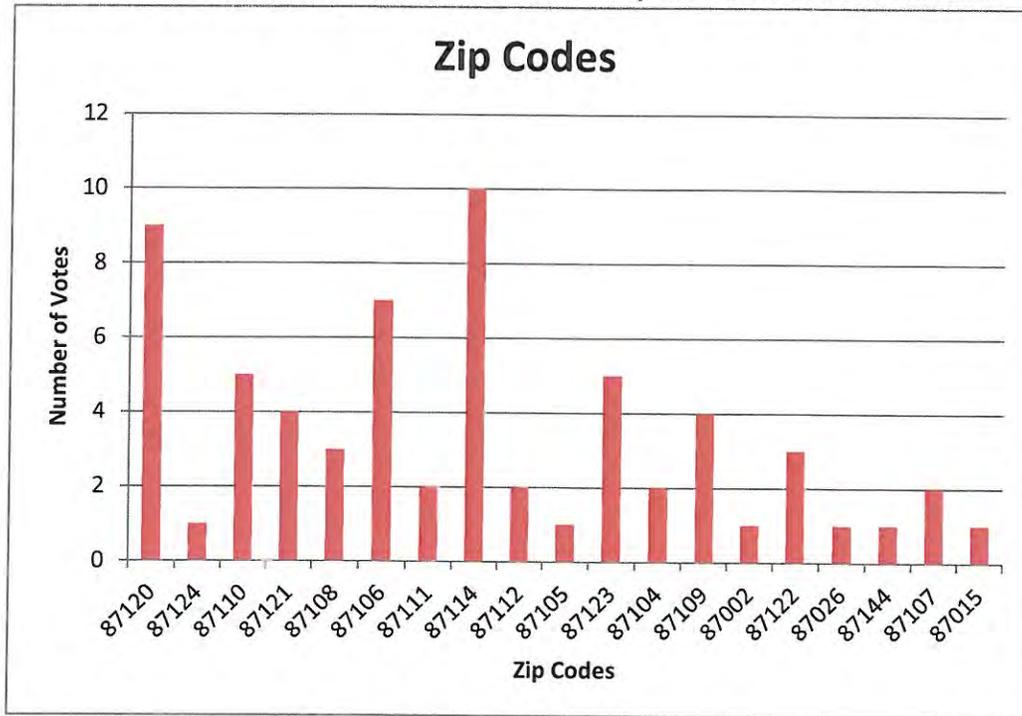
- *Additional education for residents is helpful when it comes to items on your 3rd question, especially for those that don't do them.*
- *Bernalillo water is minerally*
- *Worth the small additional monthly fee- Good Luck!*
- *Be more Demographic specific!*
- *Watched a documentary on ABQ water supply*
- *Thanks! ☺*
- *Live in rural area south of Tijeras, have well and septic system.*
- *I like water*
- *Asphalt roofs major cause of groundwater contamination*
- *Always worry about runoff water*
- *Thank you for the opportunity*
- *Thank you for being the change in the world! ☺*
- *I would like more information on grey water usage*
- *Grey water should be mandatory for yards*
- *Yay! Thank you!*
- *YES*
- *I'm a fisherman, always worried about quality of water.*
- *Thank you!*
- *Thanks!*
- *Thank Sandoval County Landfill for having hazardous waste disposal*
- *Work on environmental issues*
- *Continue your good works*
- *No Gutters in valley*
- *Collect Rainwater for yard use! Grey water uses??*
- *Best to use R/O for drinking water not plain tap!*
- *We have a septic and well system currently*
- *Better way to have communication to household how important it is to clean up after dogs!!*

- Clean water is important!
- Cool Folks! Keep up the good work!
- Need to create proper rain water runoff program

Email and Phone Numbers

- Crystal Anderson: Doodles79alex@hotmail.com, (505) 290-1791
- David Infante: (505) 710-0736
- Melsangelzz@yahoo.com
- Diazyolanda39@gmail.com
- mhenrie@roqnm.com
- Damen Lucero: (505) 400-7536
- LeAnn Aguilar: LeAnnAguilar@gmail.com
- Rachel Reese: Reeser14@gmail.com
- Yesha Galloway: yeshedreams@yahoo.com
- Thomas D Johnston: teamtom@aol.com
- Felice Knox: toadie44@yahoo.com
- padillasuzie@yahoo.com
- Victor Reliable Roofing(Green Roofer): (505) 489-3692
- Bgoodacre33@gmail.com
- Daniel: (505) 604-9715
- Kennaseni@gmail.com
- Summone80@gmail.com
- sharjean73@aol.com
- Rbryants @sfps.info
- Beebuck22@yahoo.com
- Please send Sandoval County Landfill recycle information to Town of Bernalillo
 - Attn: Carla Salazar to be included in water bill Newsletter- Thanks!

The most common place the respondents live in zip code areas 87114 and 87120.



Household Hazardous Waste Collection

July 2015- June 2016

Month	Total	Orphaned waste at facility	City Participants	County Participants	Out of County	Out of County Breakdown	County Percentage	Monthly Cost	Light Bulbs (included in monthly cost)	HW/ER Included in Monthly cost	Total Cumulative Cost
Jul-15	1212	0	1050	155	7	7-Sandoval	12.8%	\$75,450.00	\$1,518.00	\$0.00	\$75,450.00
Aug-15	772	0	675	93	4	4-Sandoval	12.0%	\$59,227.00	\$1,460.00	\$0.00	\$134,677.00
Sep-15	1037	0	900	131	6	4-Sandoval, 2-Santa Fe	12.6%	\$64,714.00	\$1,457.00	\$0.00	\$199,391.00
Oct-15	971	0	812	149	10	10-Sandoval	15.3%	\$60,073.00	\$842.00	\$0.00	\$259,464.00
Nov-15	836	0	724	105	7	7-Sandoval	12.6%	\$50,996.00	\$0.00	\$0.00	\$310,460.00
Dec-15	660	0	574	84	2	2-Sandoval	12.7%	\$43,725.00	\$3,465.00	\$0.00	\$354,185.00
Jul-Dec 2015	5,488	0	4,735	717	36		13.0%	\$ 354,185.00	\$8,742.00	\$0.00	\$354,185.00
Jan-16	761	0	648	109	4	4-Sandoval	14.3%	\$46,620.00	\$199	0.00	400,805.00
Feb-16	842	0	734	105	3	3-Sandoval	12.5%	\$52,839.00	\$1,416	0.00	453,644.00
Mar-16	1082	0	939	138	5	5-Sandoval	12.8%	\$66,911.00	\$909	0.00	520,555.00
Apr-16	1098	0	957	137	4	4-Sandoval	12.5%	\$66,978.00	\$0	0.00	587,533.00
May-16	1233	0	1042	185	6	5-Sandoval, 1-Valencia	15.0%	\$80,145.00	\$1,026	0.00	667,678.00
Jun-16	1462	8	1,246	205	3	3-Sandoval	14.0%	\$94,882.50	\$373	0.00	762,560.50
Jan-Jun 2016	6,478	8	5,566	879	25		13.6%	\$408,375.50	\$3,923	0.00	762,560.50
FY16 Total	11,966	0	10,301	1,596	61		13.3%	\$762,560.50	\$12,665	0.00	762,560.50
											\$12,665

Monthly Average **997.1667**

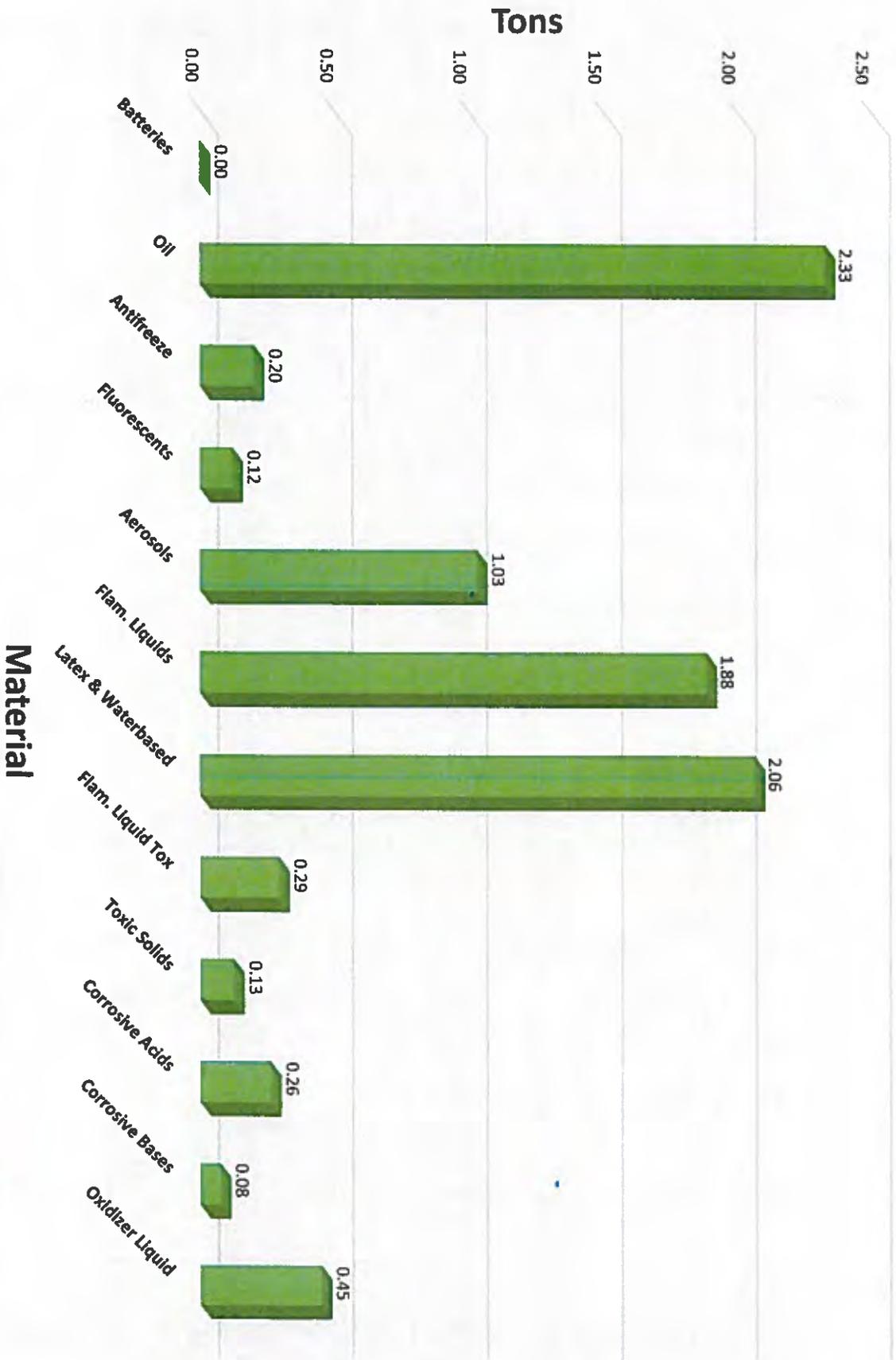
BERNCO Participation to date
 Participants 1,596
 Percentage 13.3%
 Cost \$97,356

Metric = Tons

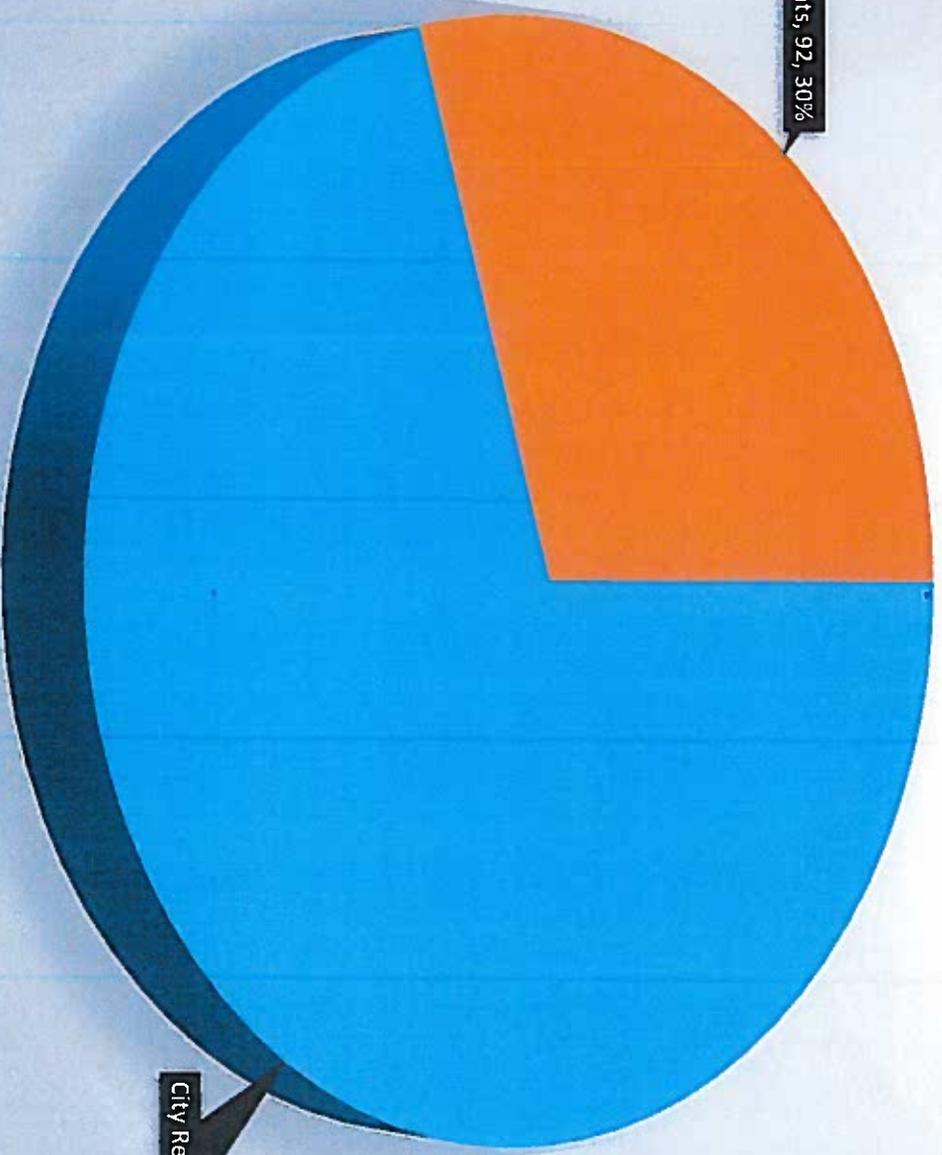
HHW Material Totals

	Batteries	Oil	Antifreeze	Fluorescents	Aerosols	Flam. Liquids	Latex & Waterbased	Flam. Liquid Tox	Toxic Solids	Corrosive Acids	Corrosive Bases	Oxidizer Liquid	Totals Tons	Residents
1st Quarter	0.00	0.00	0.00	0.06	0.23	0.45	0.30	0.08	0.13	0.15	0.00	0.45	1.83	78
2nd quarter	0.00	1.50	0.00	0.00	0.00	0.40	0.60	0.08	0.00	0.00	0.08	0.00	2.65	87
3rd quarter	0.00	0.83	0.20	0.01	0.11	0.40	0.41	0.06	0.00	0.00	0.00	0.00	2.03	68
4th quarter	0.00	0.00	0.00	0.05	0.70	0.63	0.75	0.08	0.00	0.11	0.00	0.00	2.32	75
YTD Totals	0.00	2.33	0.20	0.12	1.03	1.88	2.06	0.29	0.13	0.26	0.08	0.45	8.83	308

HHW Material Comparison



HHW City vs County

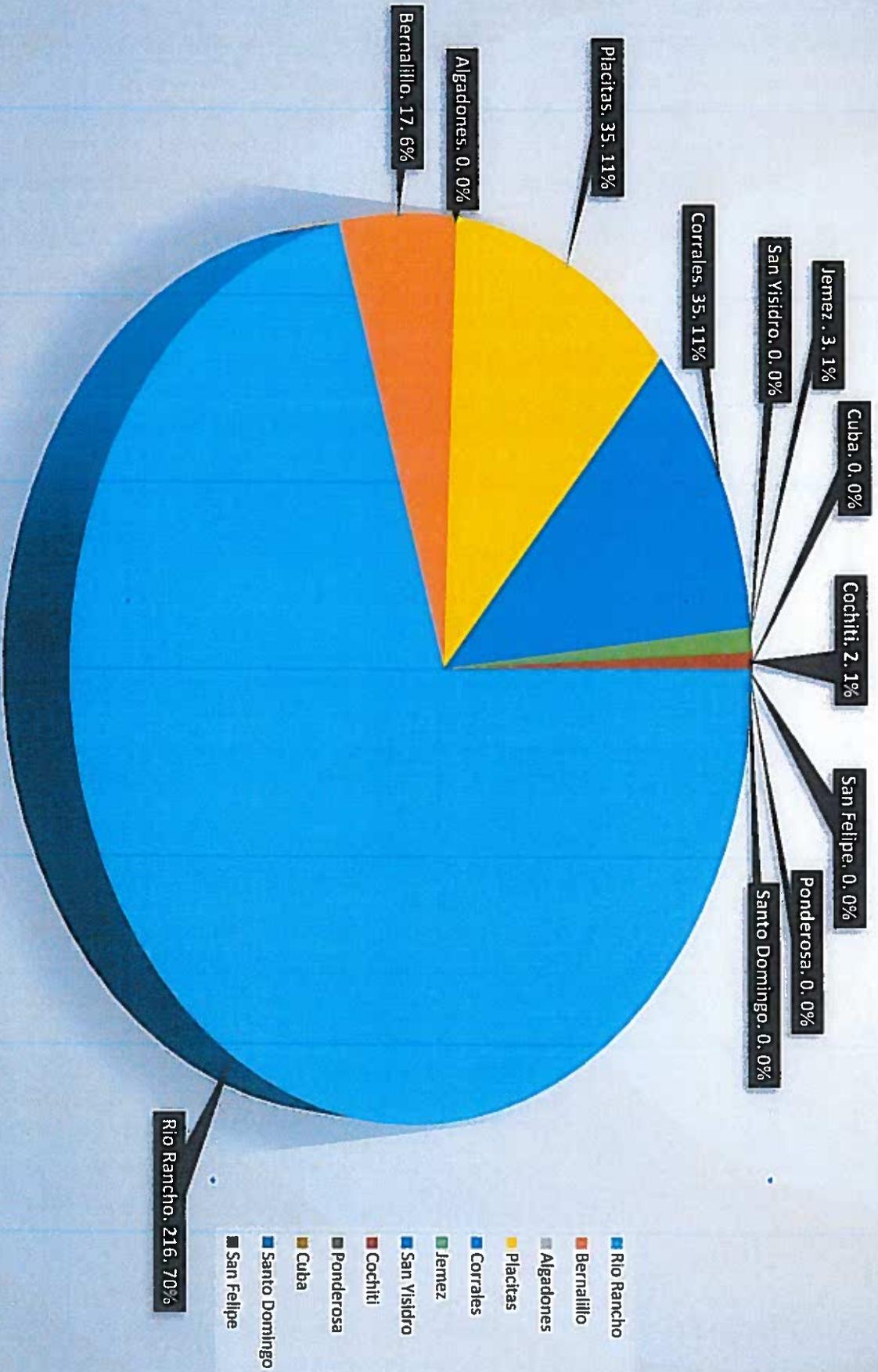


■ City Residents
■ County Residents

City Residents, 216, 70%

County Residents, 92, 30%

HHW Resident Comparison



HHW Vehicle/Resident Count FY16

Date	Rio Rancho	Bernalillo	Algodones	Placitas	Corrales	Jemez	San Ysidro	Cochiti	Ponderosa	Cuba	Santo Domingo	San Felipe	Total
FY 16 2015-2016													
7/18/2015	8	0	0	1	0	1	0	1	0	0	0	0	11
8/1/2015	11	0	0	2	5	0	0	0	0	0	0	0	18
8/15/2015	10	1	0	1	1	0	0	0	0	0	0	0	13
9/5/2015	13	1	0	2	1	0	0	0	0	0	0	0	17
9/19/2015	15	2	0	1	0	0	0	1	0	0	0	0	19
Quarter 1 Totals	57	4	0	7	7	1	0	2	0	0	0	0	78
10/3/2015	7	1	0	1	1	0	0	0	0	0	0	0	10
10/17/2015	11	0	0	2	1	0	0	0	0	0	0	0	14
11/7/2015	9	0	0	2	3	0	0	0	0	0	0	0	14
11/21/2015	9	0	0	3	1	1	0	0	0	0	0	0	14
12/5/2015	12	0	0	2	2	0	0	0	0	0	0	0	15
12/19/2015	17	2	0	0	1	0	0	0	0	0	0	0	20
Quarter 2 totals	65	3	0	10	8	1	0	0	0	0	0	0	87
1/2/2016	3	0	0	2	1	0	0	0	0	0	0	0	6
1/16/2016	10	1	0	2	0	0	0	0	0	0	0	0	13
2/6/2016	10	0	0	2	2	0	0	0	0	0	0	0	13
2/20/2016	8	0	0	0	1	0	0	0	0	0	0	0	10
3/5/2016	11	1	0	1	2	0	0	0	0	0	0	0	15
3/19/2016	4	0	0	5	2	0	0	0	0	0	0	0	11
Quarter 3 totals	46	2	0	12	8	0	0	0	0	0	0	0	68
4/2/2016	9	1	0	1	0	0	0	0	0	0	0	0	11
4/16/2016	5	3	0	2	1	0	0	0	0	0	0	0	11
5/7/2016	8	1	0	0	3	0	0	0	0	0	0	0	12
5/21/2016	8	1	0	0	3	0	0	0	0	0	0	0	12
6/4/2016	11	0	0	3	2	1	0	0	0	0	0	0	15
6/18/2016	7	2	0	2	3	0	0	0	0	0	0	0	14
Quarter 4 totals	48	8	0	6	12	1	0	0	0	0	0	0	75
FY 16 Totals	216	17	0	35	35	3	0	2	0	0	0	0	308

City Residents 216
 County Residents 92



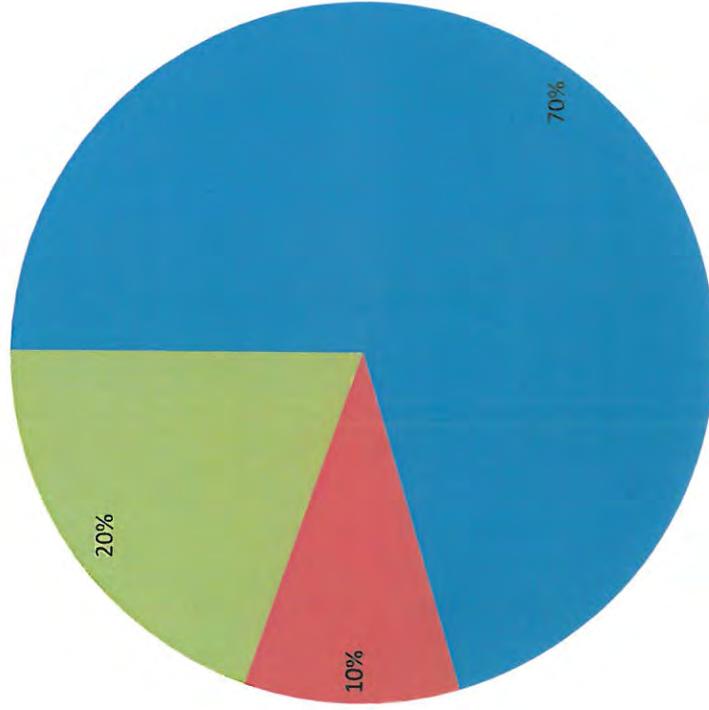
Rio Grande Water Quality Survey Results – 9/19/1015

The Mid Rio Grande Storm Water Quality Team organized a short survey addressing various water quality issues affecting the Rio Grande. This survey was conducted on September 9, 2015 as part of a public outreach initiative during The Valley Street Festival. Depending on the question, an average of 77 people responded to each question given a total of 81 respondents. The following graphics reflect the tallied results of the 10-question voluntary questionnaire. Future surveys are planned at upcoming regional events to provide a comparative baseline.

Do you think that storm water runoff affects the quality of water in the Rio Grande?

(81 total respondents)

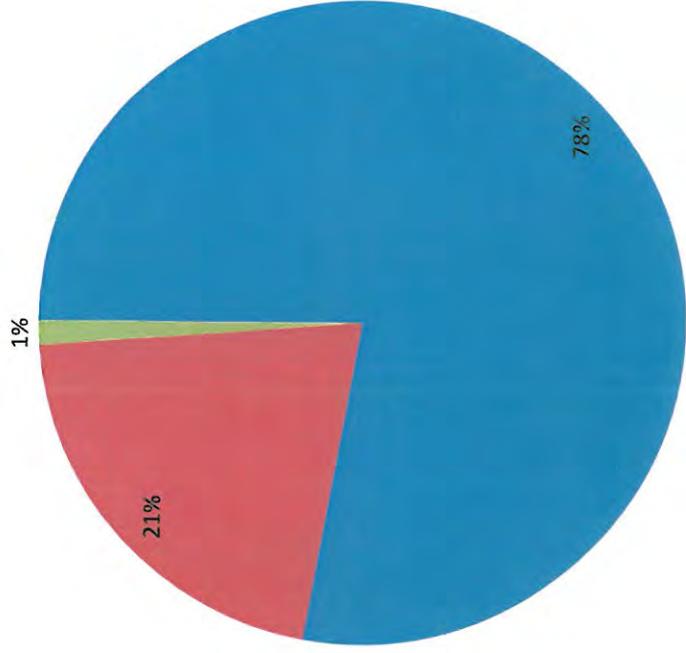
■ Yes ■ No ■ Unsure



Would you be willing to pick up after your dog/pet and dispose of waste in the trash to improve the quality of storm water runoff?

(81 total respondents)

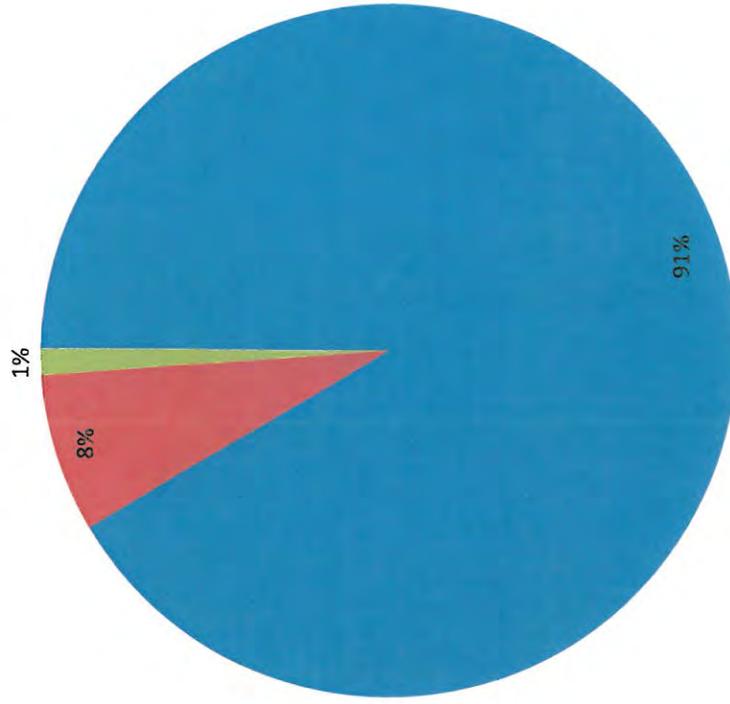
■ Currently do ■ Will do ■ Won't do



Would you be willing to reduce, reuse and recycle trash to improve the quality of storm water runoff?

(81 total respondents)

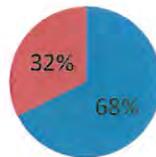
■ Currently do ■ Will do ■ Won't do



Would you be willing to pay an additional minor monthly fee on your water bill to improve the quality of storm water runoff?

(77 total respondents)

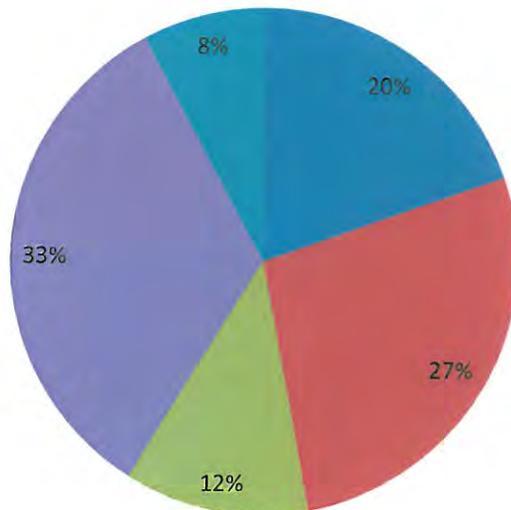
■ Would Do ■ Won't Do



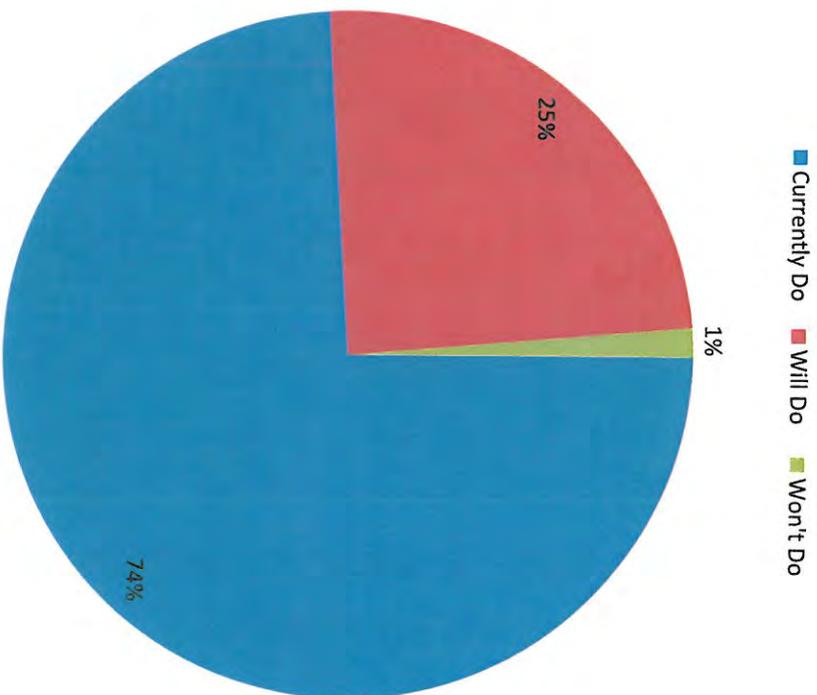
If answered "Would do", how much would you be willing to pay?

(51 total respondents)

■ \$1 ■ \$2 ■ \$3 ■ \$5 ■ >\$5

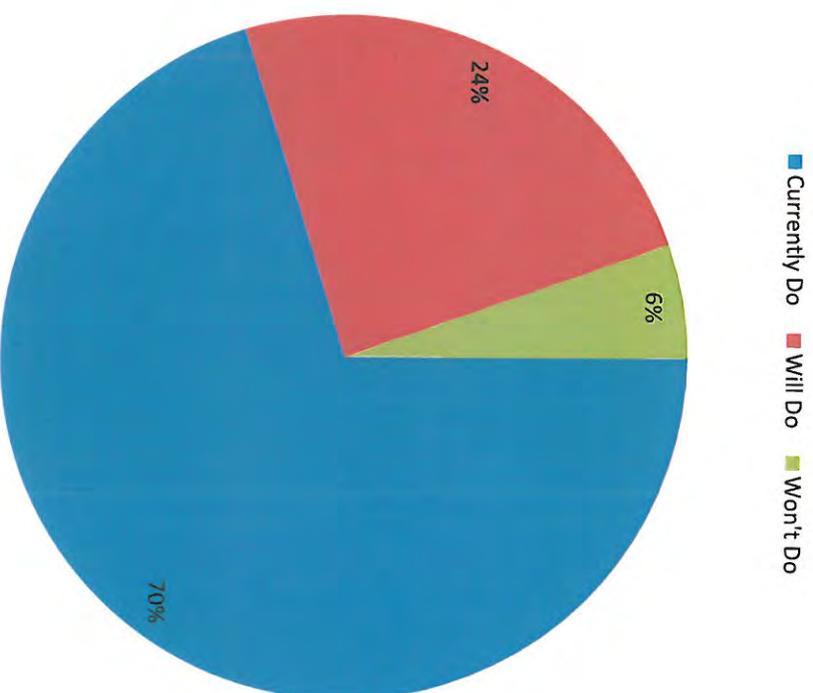


Would you be willing to reduce use of toxic chemicals to improve the quality of storm water runoff?
(73 total respondents)



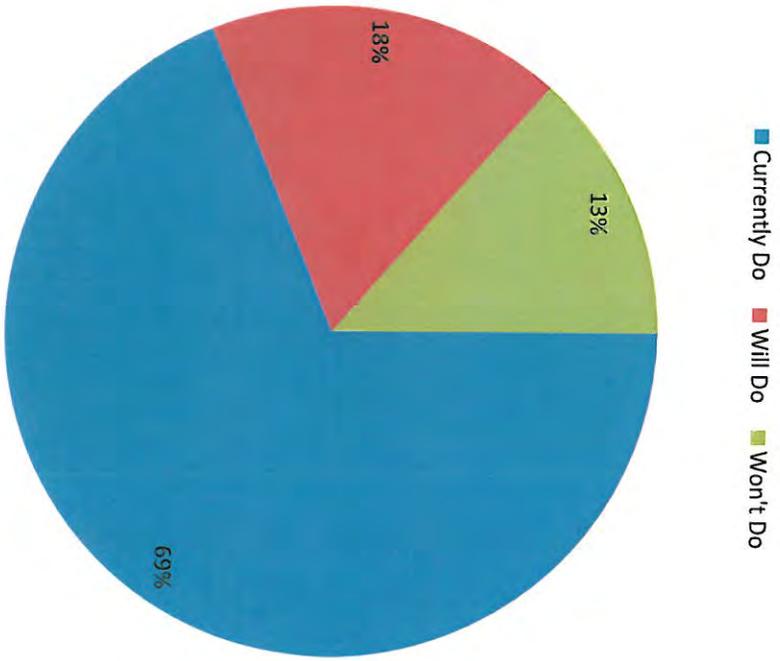
Would you be willing to fix oil leaks on cars or trucks to improve the quality of storm water runoff?

(74 total respondents)



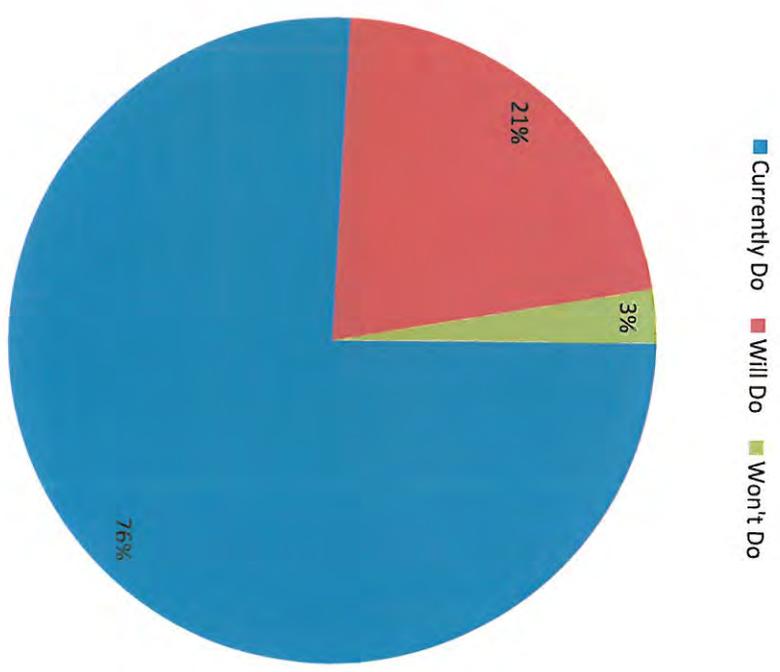
Would you be willing to wash your vehicle(s) at a full or self-service car wash to improve the quality of storm water runoff?

(74 total respondents)



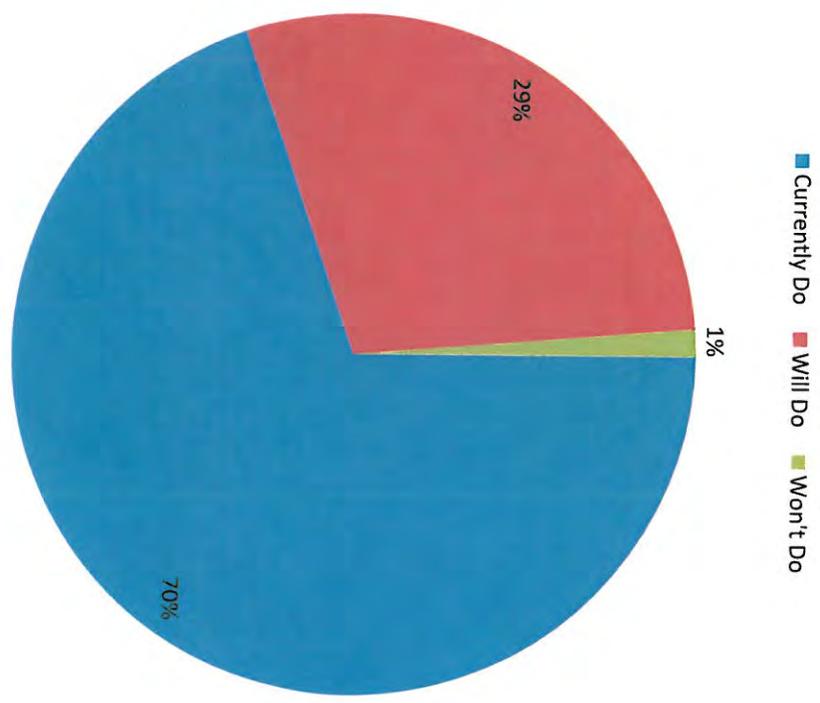
Would you be willing to dispose of household hazardous waste properly at a collection facility or during a recycling event to improve the quality of storm water runoff?

(74 total respondents)

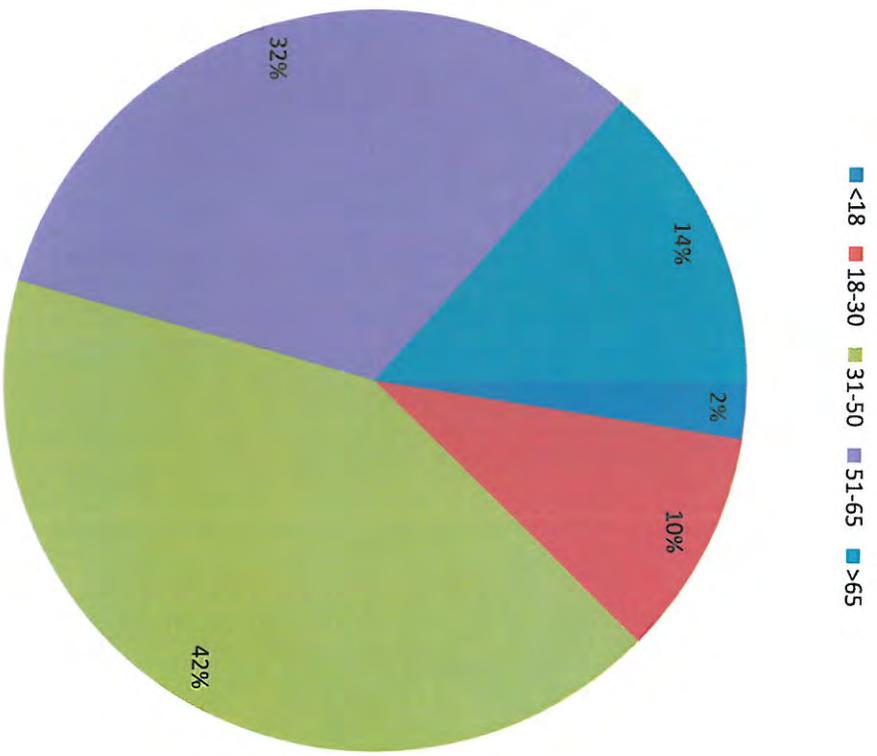


Would you be willing to keep chemicals and trash out of street gutters to improve the quality of storm water runoff?

(76 total respondents)



Age Category of Survey Respondent in Years (81 total respondents)



Comments

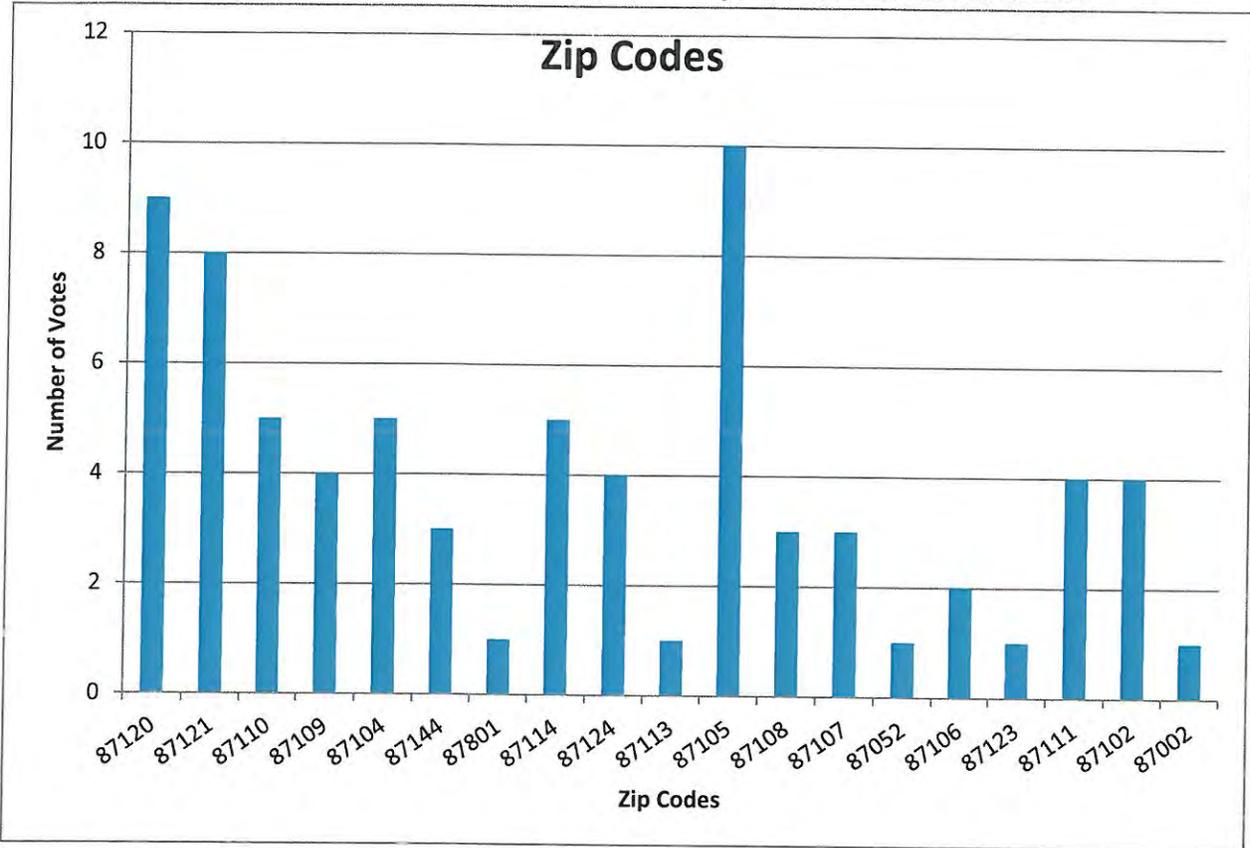
- *Water issues are high priority. (505) 399-9003*
- *Need more participation from everyone*
- *Authorize Rain Barrels in the city for gardens etc. reuse is good use.*
- *Thank you*
- *I feel that there should be more screens along the river to clear up trash and junk and also maybe an R.V. Park near Tingly and old town over-looking the river. Brown.Erc@gmail.com*
- *Thanks*
- *Thank you, our river is important*
- *Would like to see nothing running off into rivers, creek etc. in New Mexico*
- *Nice work*
- *Thanks for your work, still need more work on pet waste disposal in public spaces*
- *The river needs help from all*
- *I wouldn't be willing to pay any extra fees ever to the City of Rio Rancho thieves for water! For any reason*
- *Thanks for the recyclable cans*
- *I keep the earth clean all the time*

Add to mailing list

- *Mike Hamman- mikeh@mrgcd.us*
- *leoApodaca- 247-0234*
- *zilwyman@msn.com*
- *Eldon Nieto- Eldonnieto@gmail.com*
- *Kaddala13@gmail.com*



The most common place the respondents live in zip code areas 87105 and 87120.



Appendix G – Photos from Central New Mexico College Source Control Public Outreach Event



SEMIANNUAL PROGRESS REPORT #2 – Urban Waters Small Grant 2014-16 “Neighborhood Environmental Trios: Engaging Youth in the Health of the Middle Rio Grande,” Earth Force	Grant Agreement No. UW-00F85901
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July-December, due by 1/31; January –June , due by 7/31

Work plan Deliverables Due this period <ul style="list-style-type: none"> ● Convene partner forums each quarter ● Participate in River Rally 2015 and Urban Waters Learning Network meetings ● Support approximately 325 students in watershed inventories, conducting water quality monitoring at Valle de Oro National Wildlife Refuge, and creation of action projects addressing environmental issues ● Use data management dashboard to measure results (Conduct evaluation) 	Grant Award \$ 60,000.00
	Previous Drawdowns \$11,545.30
	Drawdowns this Period \$20,033.84
	Balance \$28,420.86

Deliverables Completed this period and Associated Costs

- Partner forums were held on 1/14/15, 3/5/15, and 5/7/15, with USFWS, Amigos Bravos, Middle Rio Grande Urban Waters ambassador, City of Albuquerque, Friends of Valle de Oro NWR, and other refuge stakeholders
- Earth Force and project partners facilitated water quality testing, lesson planning, or in-school student activities 21 times during this 6-month period.
- Professional development workshop has been scheduled for 8/4/15, for at least 10 educators, representing 5 new schools currently being recruited for the 2015-16 school year
- Planning held for World Water Monitoring Day in October 2015, potentially in conjunction with EarthEcho International
- Support provided for 472 students from 5 Albuquerque Public Schools, including 12 lesson-planning visits with educators, 2 facilitated field trips to Valle de Oro, 5 self-organized water quality field trips, and 4 educational presentations by students
- Collecting project data to measure results, including environmental inventory data (mostly water quality) and qualitative formative evaluation data from educators and students

Earth Force encumbered \$24,347.14 in the second 6 months of this project, including \$10,200.34 in personnel and \$14,146.80 in direct costs such as equipment and supply purchases, bus rentals, printing, and staff travel, as well as a \$4,000 subgrant to Amigos Bravos. (This total includes June expenses which we not drawn-down by 6/30/15.)

Project Highlights this period:

Students developed and implemented impressive environmental action projects. Two schools in particular – Coronado Elementary and Truman Middle School – completed exemplary projects:

Coronado, a dual language school near Albuquerque’s National Hispanic Cultural Center, paired a 1st grade classroom with a 5th grade classroom to study water quality at the bosque near the Hispanic Center and at Valle de Oro. The 1st graders made monthly visits to the Rio Grande and conducted water quality tests, giving their collected data to the 5th grade class. The older students took the data and used it as a seed for a year-long investigation into dog waste’s role in urban water quality. Their long-term investigation tied all parts of their curriculum together, and included heavy lessons in science, literacy, art, technology, math, and social studies. They created multiple culminating student products: an Earth Day TV news spot on KOAT, a video explaining stormwater runoff, a PowerPoint presentation, dog treat carriers as a fund-raiser, and a presentation to City of Albuquerque officials explaining their finding and recommendations. Educators Lauren Gutierrez and Barbara Andreu

rose to the challenge this project presented, worked diligently, and exceeded expectations.

Truman Middle School, through the 120-student MESA (Math Science Engineering Achievement) enrichment program, conducted chemical, physical, and biological tests at their school and the refuge. Finding elevated phosphorus levels in their samples, they searched for and studied informational texts about phosphates. For their action project, they prepared a presentation about their study, and included tips about reducing phosphate pollution. It was presented at River Rally (May 2) and the MESA Awards Banquet and Parents Night (May 4). Educators/advisors Lynn Schuler and Jenny Duff guided this work and have both expressed excitement for continuing with Earth Force in the coming school year.

At Montessori of the Rio Grande and Lew Wallace Elementary, projects were planned and partially implemented. Montessori students learned about ecological restoration at the refuge. They took their learning back to their school campus, applying it to planting suggestions around a constructed wetland. Lew Wallace's 3rd-5th gifted students planned a May water festival, but were unable to host the event due to scheduling conflicts. No project resulted from our work at Ernie Pyle Middle School, though they did conduct inventorying activities.

Quarterly partner forums allow for coordination among the project team. Our January 14 discussion focused on river safety and resulted in a "Water Safety Policy" distributed to all of our schools. On March 5, representatives of organizations conducting educational activities and environmental research on the refuge met with community members, and shared progress reports in a round-robin. On May 7, a similar group convened; Earth Force facilitated a SWOT Analysis (Strengths-Weaknesses-Opportunities-Threats). A set of strategic suggestions for education at the refuge was captured.

As part of our project evaluation, we conducted a series of Most Significant Change Technique interviews. Stories from 5 educators and 6 students were captured. These interviews are the qualitative portion of our project's evaluation. We also began planning for administering our pre-/post-student surveys, which are the quantitative evaluation component.

After Albuquerque Public Schools released on May 22, we began summer work on three major tasks: qualitative evaluation analysis (transcribing interviews, pulling out themes, and documenting memorable stories for presenting to participants), activity guide revising (writing an environment history of the South Valley, selecting geographically and ecologically appropriate activities (including scanning macroinvertebrate data for a Middle Rio Grande specific biological index), and school recruitment.

We had an active six months sharing our project in professional circles. At River Rally (May 1-4 at Santa Ana Pueblo), we took part in Friday's Urban Waters Learning Network meetings, presented KIC-NET as part of "Youth Take Action: Three Creative Approaches to Youth Engagement" on Saturday, and had seven students and two educators from Truman Middle School present their project as a poster during the networking reception on Saturday evening. In February, a fact sheet about KIC-NET, "An Urban Waters Impact Story: A Model to Engage Youth," was published by the Urban Waters Learning Network. We had peer-reviewed presentations accepted for three upcoming conferences: Water Environment Federation Technical Exhibition and Conference (Sept. 30 in Chicago), North American Association for Environmental Education Annual Conference (Oct. 17 in San Diego), and American Water Resources Association Annual Conference (Nov. 19 in Denver). Finally, KIC-NET was accepted as an "Accomplished" program in Change the Equation's Colorado STEMworks database.

For our autumn World Water Monitoring Day event, we met with EarthEcho International (home organization for World Water Monitoring Challenge) about scheduling Phillippe Cousteau for an appearance. This remains tentative.

Problem Areas, Delays, or Areas of Concern for this period:

In response to feedback from teachers, we worked with our partners at Amigos Bravos, Valle de Oro National Wildlife Refuge, and the Friends of the Valle de Oro National Wildlife Refuge to modify project duties in Year 2, especially in interfacing with students. Julia Bernal, a Native

American Water Corps member who has been working at Valle de Oro for the last year, will have her term extended through the cooperation of the refuge, the Friends group, Amigos Bravos, Earth Force and Conservation Legacy/Environmental Stewards. With her environmental education experience, Julia will be the first choice for facilitating field work for students at the refuge. Christian LeJeune, Amigos Bravos Urban Waters coordinator, will focus on their project and other monitoring work, while remaining available to consult on student analysis and action projects.

Unresolved Problems, Delays, or Areas of Concern from the Previous Period

We continued to manage our budget, with the recognition that about \$5,000 in additional funding for our Year 2 would allow us to meet all transportation and equipment needs. The Friends of Valle de Oro did earmark \$5,000 for transportation to and from the refuge. We continue to discuss this with partners and to search for additional support.

Resolutions to Problems Previously Reported

The MOU between Earth Force and the City of Albuquerque was signed on March 10, 2015. It will be completed on October 31, 2015, with payment of \$10,000 to be invoiced on the closing date. These City dollars serve as part of our project's match. In addition, we will work with partners, especially schools, to capture further match since many educators are putting many hours into this project.

Erika C. Rodriguez was hired as an Earth Force program coordinator in January 2015. She holds a BA from Lake Forest College in environmental studies, educational studies, sociology, and anthropology. Having administered an environmental leadership program for three years, she has experience in stream monitoring and environmental education, with both adults and youth. She joins Donny Roush and Genora Givens as Earth Force staff assigned to this project.

Activities Anticipated/Planned for Next Six Months and Budgeted Costs: We will hold a partner forum at the refuge on Aug. 3 and a full-day educator professional development workshop on Aug. 4. We will have the Albuquerque edition of the KIC-NET Activity Guide to distribute at this workshop. On Aug. 5, Donny Roush and Erika Rodriguez will participate in a New Mexico Museum of Natural History and Science educator workshop on the Bosque Education Guide. We will distribute copies of this extensive curricular resource and the KIC-NET guide to all project schools following the workshop.

Planning will continue for World Water Monitoring Day. Scheduling of field work/school visits to the refuge will be made through Valle de Oro AmeriCorps water educator Julia Bernal, whose term is being extended. Bus rentals will continue to be paid directly by Earth Force. During the school year, we will have five new schools to support, as well as student surveys and a May youth summit to organize. The summit will serve as a culminating and public demonstration of learning, with table top displays, student presentations, and an authentic audience of stakeholders.

I certify that this report is true and correct, project is on schedule except as noted, and funds are being utilized as planned and agreed to in the award document.

Signature of Project Official _____

Printed Name Donny Roush

Date 7/23/15

Title Director, KIC-NET Stormwater Partnerships

Attachments:

1. Coronado Elementary 5th grade presentation
2. Truman Middle School MESA presentation
3. Earth Force Water Safety Policy

4. May 7 partner forum minutes
5. Most Significant Change Technique interview guide
6. River Rally 2015 presentation
7. Urban Waters Learning Network fact sheet
8. Change the Equation acceptance letter and review summaries
9. Pierce Foundation letter
10. Erika Rodriguez resume
11. Amigos Bravos status report
12. EJSSCREEN report on Albuquerque's South Valley

Media links:

Friends of the Valle de Oro newsletter:

<http://friendsofvalledeoro.wildapricot.org/Resources/Documents/Volume%20%20Issue%201%20January.pdf>

Valle de Oro social media: <https://www.facebook.com/ValleDeOroNationalWildlifeRefuge>

Earth Force social media: <https://www.facebook.com/EarthForceGREEN?fref=ts>

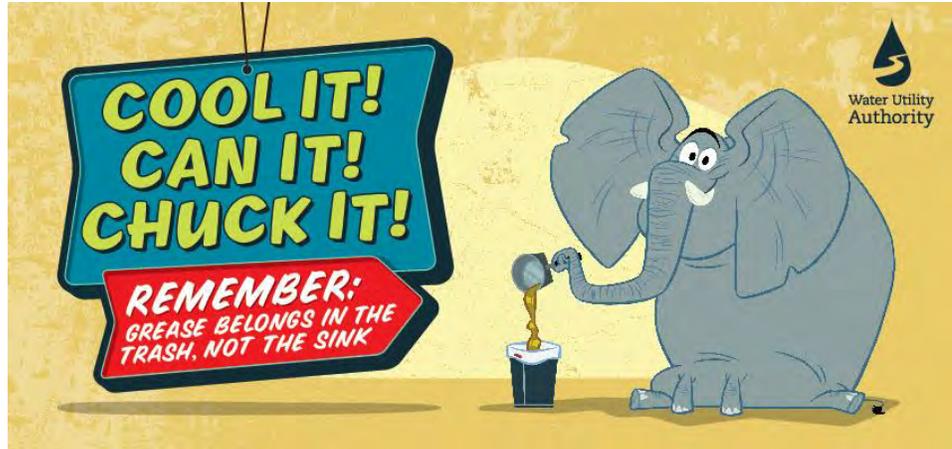
<http://earthforce.org/blog/kic-net-program-flourishes-in-and-out-of-the-water/>

<http://blog.yourwatercolorado.org/2015/02/19/colorado-water-education-pilot-project-expands-nationally/>

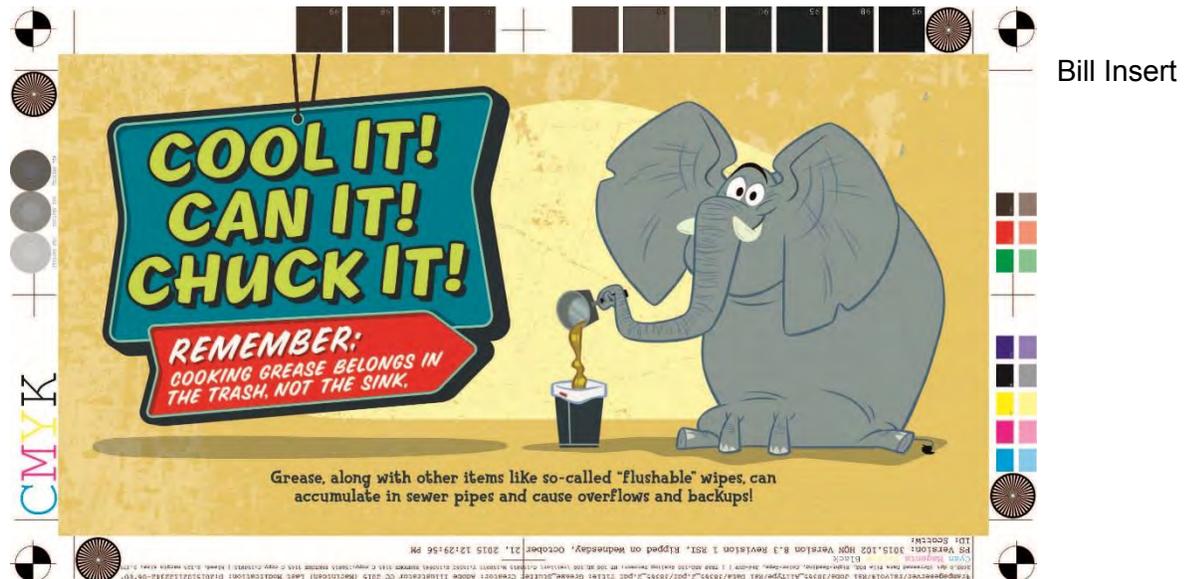
"There's too much dog poop in the Rio Grande," April 22, 2015 – KOAT-TV News: <https://youtu.be/lxrPHWFODs4>

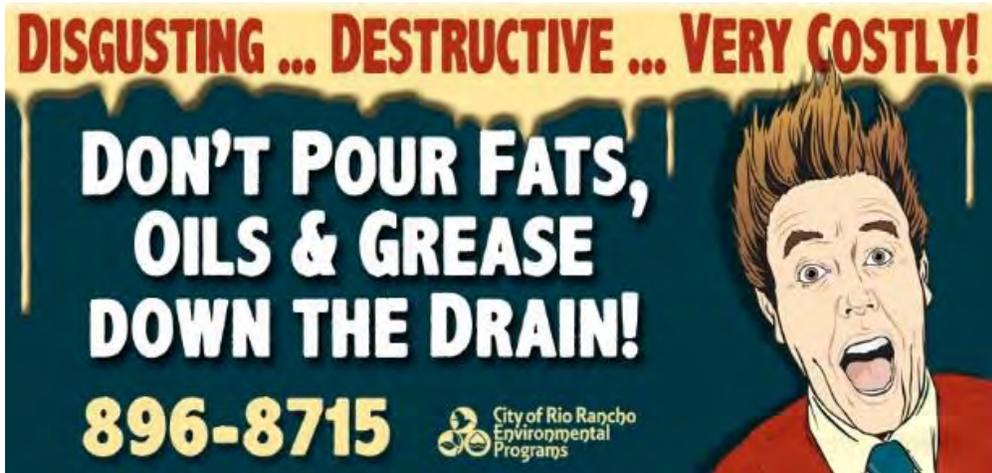
Appendix I – Samples of 2015 Albuquerque Bernalillo County Water Utility Authority FOG Campaign

Digital Outdoor Board 1



Digital Outdoor Board 2





Outdoor Board

Print Ad in *Rio Rancho Observer*

A print advertisement with a dark blue background and a yellow banner at the top. The banner contains the text "DISGUSTING ... DESTRUCTIVE ... VERY COSTLY!" in red, with each word on a separate red banner. Below the banner, the main text reads "PIPES CLOGGED WITH DISCARDED FAT CAN CAUSE:" in black. To the left of this text is a cartoon illustration of a man with spiky brown hair, wearing a red suit jacket, white shirt, and blue tie, with a shocked expression. To the right of the main text is a list of consequences: "Raw sewage to back up into your home or overflow into parks, yards and streets.", "Increased calls for a plumber.", "Unpleasant and expensive cleanups at your expense.", "Potential contact with disease-causing organisms.", and "Increased cost for local sewer departments, causing higher sewer bills for all customers." Below this list is the text "AVOID CLOGGED PIPES:" in black, followed by "NEVER POUR GREASE DOWN A SINK OR INTO A TOILET" in red. To the right of this text is an illustration of a yellow bottle of cooking oil, a block of butter, and a white container. Below the main text is another list of actions: "Scrape grease and food scraps into a disposable container, or place in a trash can (after cooling).", "Do not put food scraps down the garbage disposal – this shreds solid materials into smaller pieces but does not prevent grease from going down the drain.", and "Use a strainer in the sink to catch food scraps and other solids." At the bottom left, the text "FOR MORE INFO: 896-8715" is displayed in yellow, next to the City of Rio Rancho Water Conservation Office logo. The logo includes the text "City of Rio Rancho Water Conservation Office" and "Conserve. Reuse. Preserve. Replenish."



2015-2016 Mid-Year Report

RiverXchange is an innovative outreach program that combines a year-long curriculum about stormwater, municipal water, and riparian habitat, with service-learning field trips and online class partnerships, giving New Mexico 5th grade teachers and students a broad understanding of how they can protect local water resources.

RiverXchange leverages relationships with a wide network of agencies to bring technical expertise directly to participants through classroom presentations, as well as field trips, which engage students in riparian restoration and water quality testing. This direct communication between water resource managers and young citizens encourages students to engage with these issues.

Long-term engagement with the topic from many different perspectives helps participants develop a more personal connection to their own river ecosystem. This sense of stewardship motivates and empowers students to conserve and protect water resources.

Writing to online pen pals reinforces knowledge by requiring them to explain concepts in their own words, and persuasive writing assignments help them develop critical thinking skills. Other creative projects, such as videos and shared photo documentation of their learning, demonstrate students' use of technology. Posting their projects, assessments and reflections about their experiences on their Kidblog site gives students a safe platform to share their knowledge and interests concerning critical water-resources issues not only with their partner class, but with all classes involved in RiverXchange.

The program is exciting for students, so there is an increased likelihood that they will influence their families, friends and other students by sharing their learning experiences, leading to behavior change in the larger community. Through participation in real environmental restoration projects and teaching others about watershed issues, we believe students will be inspired to put these skills to use outside of school and grow up to be environmentally responsible citizens.



Program Highlights:

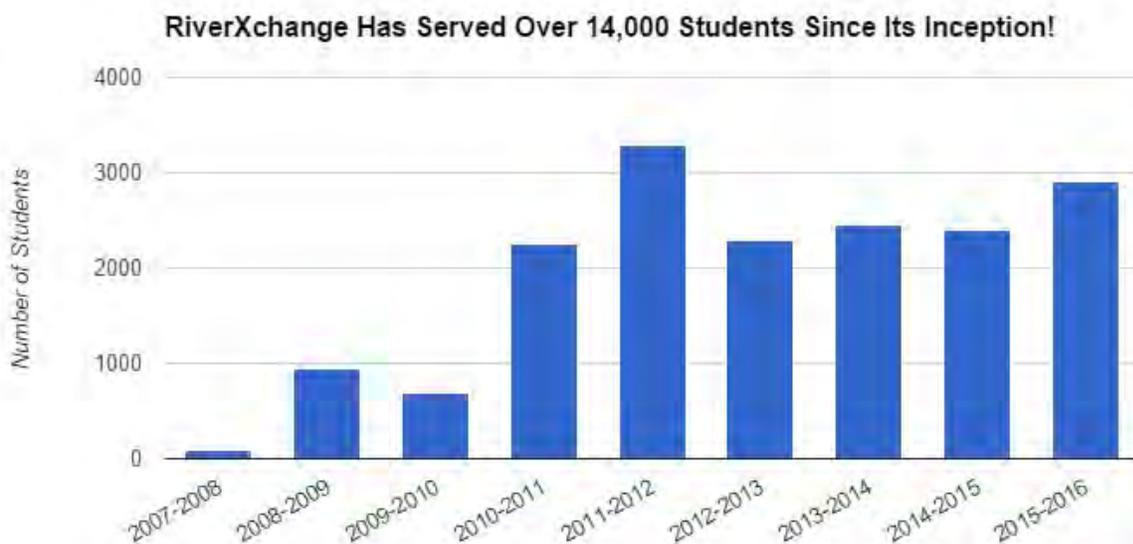
- 45 New Mexico classes, 1150 students
 - MRGSQT (30 classes – 750 students)
 - SSCAFCA (15 classes – 400 students)
 - NFWF - Field trips 30 classes for the year - 1,150 students total
(16 classes completed to date, 400 students contributing 1,260 hours of riparian restoration)
 - Rolling River Presentations for 24 classes, 600 students
- 63 Partner classes, 1756 students
- Each student spends at least 25 hours engaged with the program over the course of the school year
- 184 hours of in-class presentations
- Guest presenters have contributed 120 hours delivering in-class programs
- 4,025 student-hours of riparian restoration
- We see evidence of critical thinking in students' writing and creative projects on each classroom's Kidblog
- Students completed Pre-Survey in September. Post-Survey will be completed in May and results will measure students' learning and assess specific behavior changes
- Teacher survey results will be compiled by May 31 and inform future program planning





The Numbers:

	Students	Classes
Albuquerque	686	27
Total Bernalillo County	686	27
Placitas	19	1
Rio Rancho	413	15
Unincorporated Sandoval County	32	2
Total Sandoval County	464	18
Total New Mexico	1,150	45
Partners	1756	63
Program Total	2906	108





Participating Schools:

Bernalillo County

Arroyo del Oso Elementary (3)
Bandelier Elementary (1)
Cochiti Elementary (2)
Edward Gonzales (6)
Georgia O'Keeffe (2)
Lew Wallace Elementary (1)
Los Ranchos Elementary (2)
Monte Vista Elementary (3)
Mountain View Elementary (2)
Osuna Elementary (3)
Zia Elementary (2)

Sandoval County

Cochiti Elementary & Middle School (2)
Colinas del Norte Elementary (3)
Maggie Cordova (2)
Martin Luther King Elementary (5)
Placitas Elementary (1)
Rio Rancho Elementary (5)

Upcoming Field Trips:

Please call Bonnie Schmader at 999-9679 for details and directions to the site.

All field trips are at the Shining River bosque access. Students arrive at 9:45am and leave at 1:00pm.

January 21 - Colinas del Norte Elementary
January 22 - Martin Luther King Jr. Elementary
January 29 - Georgia O'Keeffe Elementary
February 4 - Cochiti Pueblo Elementary
February 5 - Zia Elementary
February 10 - Los Ranchos Elementary
February 11 - Colinas del Norte
February 12 - Rio Rancho Elementary
February 18 - Rio Rancho Elementary
February 19 - Martin Luther King Jr. Elementary
March 3 - Martin Luther King Jr. Elementary
March 4 - Rio Rancho Elementary
May 11 - Cochiti Elementary (location is at Tingley Wetland)





What Students Are Saying:

(Albuquerque, NM)

From Soren and Aaliyah:

How can we protect our storm water? Well first, we could stop pollution from entering storm drains and flowing into rivers. Storm drains are those holes on the street. To prevent that horrible pollution, you can pick up after your pet and not litter your trash.

(Washington)

-Dear Soren and Aaliyah

Thanks for the video, it was great. i learned a lot about how polluted the water in the world is and how people suffer without fresh water. Also, I learned how terrible it is for the animals. Do you have any ideas to try to save water?-Vanshita

(Washington)

-From David and Hailey:

It's important to protect storm water because it heads straight back to our rivers and lake and gets are water dirty so we can't use it and it kills the fishes and it hurts animals.

We can protect are storm water by picking up our dogs poop, recycling, picking up trash, not pouring oils outside, and don't flush trash down the toilet.

(ISRAEL)

-Hi we are Lorenz and Johannes.I am Lorenz I like Harry Potter,ballet and math.I am Johannes I like soccer and my favorite animal is a rabbit. Who rolled around the wall in the video without talking? That machine that the boy used to speak is very interesting. How does it work? It gets very hot where you live. Does the river evaporate because it is so hot? We have that problem with the Dead Sea here.

(New Mexico)

Hi, my name is Ella, just like the girl in your class. We have a lot in common Ella. My favorite color is green, blue, and black. My favorite subject is math, because I am really good at it and I am clumsy. Our river is the Rio Grande if you are wondering. The Rio Grande is one of the longest rivers in our country. Do you know anything about our river? And what is the C&O canal? Also, the Rio Grande is the 21st longest river in the world and the 5th longest in the North America.

(Maryland)

-Hello Ella. My name is Ella as well. You are correct, we are a lot alike. The C&O Canal is a canal that closed down in 1924. It was supposed to go from the Chesapeake Bay to Ohio River but after many years they decided to stop working on it. A canal is like a street but with water and boats instead of cars and concrete.



(Maryland)

-It cool that the Rio Grande is the 5th longest river in North America. The C&O canal is a canal that runs along close to the Potomac River. The C&O canal construction started in 1828. It took 22 years to build! The C&O canal flows in between Cumberland and Georgetown. Also the canal closed in 1924. Did you know? The C&O in C&O canal stand for Chesapeake and Ohio River. That's where the canal was supposed to reach but it took longer than expected. So it never reached that. -Lillia

(New Mexico)

Surface water gets polluted by us throwing trash the It goes to the river when it rains. When farmers use chemicals to kill insects off plants that goes to the ocean and kills the fish . When you throw old medicine on the toilet then you flush it goes into the water we drink. This doesn't help our watershed or the environment. -Juan

(Iowa)

Hi, my name is Jonathan. I go to Oelwein middle school. I am a 6th grader. We are the Oelwein Huskies. The closest major river we have is the Mississippi River. It is 2,320 miles long! it starts at Lake Itasca in northern Minnesota. It's watershed is the 4th largest in the world and the watershed includes all or parts of 31 states and 2 Canadian Provinces. It covers 1.2 million square miles and 40% of the lower 48 states. Just a few facts about the mighty Mississippi. Sincerely, Jonathan

(Maryland)

-Hi i'm back to tell you more! we have three rivers. The Susquehanna River it is 464 miles long. it passes through New York, Pennsylvania, and Maryland-7 million people live on or near it. It provides HALF of the fresh water Inflow. The James river 348 Miles long and 8 major dams along its coast. The Potomac is near Washington DC and has over million people using it for water every day! -Breonna W.

(New Mexico)

Dear Pen Pal,

My name is Alissah. I live in the Rio Grande watershed. I learned that you should never throw plastic water bottles in a watershed, because they can flow into the ocean. A watershed can also be known as natures kidneys, or a strainer , because it flows down lower land. I also learned it is a recreational area. Sincerely , Alissah



(New Mexico)

Dear friend,

My name is Ari. I learned about EROSION! If your wondering what that is, I can tell you. Erosion is when there's a rock or land and it might snow at night and, melt in the day and then and then the rock breaks down. That happens because when the snow melts it turns to water and dissolves the rock down to be thinner and look different the next day. A good and easy way to stop/slow down erosion is by vegetation! Vegetation is when planting trees, bushes, vines and lots of other plants. The plants help slow down erosion it. would be pretty cool to watch happen step by step (it would be pretty cool and tiring). This is what I learned about erosion. -Ari

(New Mexico)

Hello my name is Vash and me and my group are going to tell you what a watershed is. I like the Rio Grande because it is really the only source of natural water around! A water shed is all the land that leads the water into our river

(Connecticut)

-Hi Vash my name is Kevin R our river is called the Housatonic River we have different trees than you they are called desidguous trees. I am sorry if I spelled desidguous wrong. My favorite song is Watch Me Whip. What is yours I would like to know! -Kevin

*-Hey Kevin I was just learning about the deciduous forest and actually we do have deciduous trees even though were a desert deciduous trees are trees that lose there leaves and our rainfall stays and goes it soaks into the permeable surface like dirt,planters,annnd gravel!!The impermeable surface is concrete sorry if i spell anything wrong all the extra rainfall goes to our storm drains!
My favorite song is We are the champions by queen. -Vash*



(New Mexico)

Hello my name is Paco, and I live in New Mexico. We have been doing our river-x project. A watershed is when land feeds water into a body of water such as rivers, lakes, seas, and oceans. The name of our river is the Rio Grande. The journey our river takes is it starts in the Rocky Mountains and ends in the Gulf of Mexico, and travels over 2000 miles. The Rio Grand goes through Texas, Colorado, and New Mexico. Our river is muddy in some places, big in some places, and small in some places. We get 5-10 inches of rain every year, but we have got a lot of rain this year. The end of summer and the beginning of fall is our monsoon season. Sincerely, Paco

(Connecticut)

-Many greetings from Redding, CT. We are a New England State and we are in the North East part of the United States. Redding is a rural community for our area and there is a lot of open land. The water that we use and drink comes from underground wells. We are close to the Atlantic Ocean but we are only a few miles form the Long Island Sound. All the water in our area flows to Long Island Sound. We need it to stay clean because we swim and fish in that water. Here in Redding we have four watershed areas in our town. The biggest river is the Saugatuck River. We want to learn how we can help keep our water clean. -Christina

(CAMBODIA)

Hello! My name is Sreyneang. You can called SO.

I love to play sport and listen to music and audio. Also I like to make a quote when I doing something.

Have you seen my watershed or learned anythings. Here is the cool think about us, we are living on one of the river name Basic that has divided from Mekong river (a big flow river). Also there is current problem like trash, sewage, industrial pollution, over fishing and the building of dam. In the future, I will try to solve this issue. Who want to work with me?

(New Mexico)

-We have the same problems. I also want to help rivers some day! To be able to help all the animals that need the water and be able to save all these fish and let them survive. Our river was pretty much destroyed by humans! At first our river was called the Rio Bravo, which means brave river, (Rio means river and Bravo means brave) it was full of life and there was a big amazing curving river! Until humans came and made it Rio Manso, and made it strait, killed animals and destroyed almost all the nature. Now we are trying to make it a better place, but humans are still destroying it with pollutants. Did you know we actually find bath tubs in our river! Comment back soon.-Maddoz

(CAMBODIA)



Sou Sdey! My name is Thiny. I am from Cambodia. I like English writing and my friends also said I am good at it. Cambodia's watershed is the Mekong River. Every time I go to my hometown, I cross the Mekong River using a ferry. This is what our ferry looks like.



Hello everyone! My name is Sythong I am 13 years old. I like fashion. I learn at Liger Learning Cener and I would like to share with you some information about Mekong River about. Mekong River flow through many countries such as China, Myanmar, Thailand, Laos, Cambodia, and Vietnam. In most of the countries Mekong is their water source. In cambodia 80% of the protein in their diet is from the fish from the Mekong River. The farmer in Vietnam use water from Mekong River and 50% of the water is used for iriigation. Mekong River few many names. The Chiness call it "Lancang Jiang" which means "Unstable River". Thai and Lao call it "Mae Nam Kong" which means "Mother Water". Vietnamess call it "Cuu Long" which means "New Deagons". The name Mekong means "The mother of water"

(New Mexico)

-Were having a water drought our self's so we Shure could use some of your water. In NEW MEXICO we also have a trash problem, where people are too lazy to pick up there dogs poop and the rain washes up the dog poop into the rivers and lakes polluting the water. Also for some odd reason people dump their old beds and bath tubs in the river even though that they know there's a dump!!! P.S I like the picture # :)



(New Mexico)

Nicole and Steve were talking about the commercial uses of the river. They talked about the 4 H program, the 4 h's stand for head, hands, heart, and health. They talked about different ways that people water different type of crops. The first way they talked about was flooding, flooding is where you just flood your crop with water at lot of times you might see people flooding Chile crops that use a lot of water. Another way that Nicole and Steve talked about is the sprinkler that is when water gets mist at the plants to grow a lot of times sprinklers are set up to spray for the time as needed. The last way to water crops is the drip system that is where a tube runs along a tree with a hole to allow the water to come out but not a lot of water comes out because plants that use a drip system most-likely those plants don't use a lot of water. I would have to say that the drip system uses a lot less water than the flood. -Lexi



2015-2016 Stormwater Science Education Outreach Numbers

Storm WS classroom presentation											
Study Trips											
Storm WS field activities											
Other Storm WS science related events											
Date	Teacher	School	City	# students classroom	# students in Field	# adults	Grade	Activity	# Presentations	Hours	School Level
9/8/2015	Sylvia Meyers	Chamiza Elementary	Albuquerque	22		1	4th	Classroom	1	1.5	ES
9/8/2015	Janis Hirsh	Chamiza Elementary	Albuquerque	24		1	4th	Classroom	1	1.5	ES
9/28/2015	Janis Hirsh	Chamiza Elementary	Albuquerque		24	5	4th	study trip	1	4	ES
10/6/2015	Rona Gomez/Colleen	Madison Middle School	Albuquerque	172		4	7th-8th	Classroom	6	6	MS
10/13/2015	Rona Gomez	Madison Middle School	Albuquerque		30	4	8th	study trip	1	4	MS
11/3/2015	Sylvia Meyers	Chamiza Elementary	Albuquerque		22	4	8th	study trip	1	4	ES
12/1/2015	Ms. Summerbell	Martin Luther King Elementary	Rio Rancho	24		1	4th	Classroom	1	1	ES
12/1/2015	Ms. Council	Martin Luther King Elementary	Rio Rancho	20			4th	Classroom	1	1	ES
12/1/2015	Ms. Thompson	Martin Luther King Elementary	Rio Rancho	20			4th	Classroom	1	1	ES
12/1/2015	Mr. Pearson	Martin Luther King Elementary	Rio Rancho	20			4th	Classroom	1	1	ES
12/1/2015	Ms. Dengler/Kits	Martin Luther King Elementary	Rio Rancho	27			4th	Classroom	1	1	ES
12/8/2015	Kari Daniels	Bosque School	Albuquerque	16		1	7th	Classroom	1	1.5	MS
12/8/2015	Ms. Salaz	Martin Luther King Elementary	Rio Rancho	22		1	4th	Classroom	1	1	ES
12/8/2015	Beth Northness	Martin Luther King Elementary	Rio Rancho	21		1	4th	Classroom	1	1	ES
12/10/2015	Kari Daniels	Bosque School	Albuquerque	15		1	7th	Classroom	1	1.5	MS
12/14/2015	Kari Daniels	Bosque School	Albuquerque	16		1	7th	Classroom	1	1.5	MS
12/15/2015	Cathy Bailey	Bosque School	Albuquerque	17		1	7th	Classroom	1	1.5	MS
Total #'s				436	76	26			22	34	

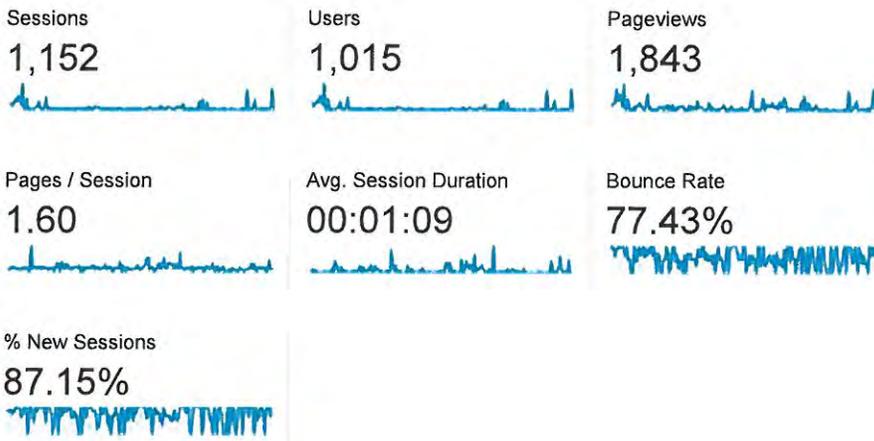
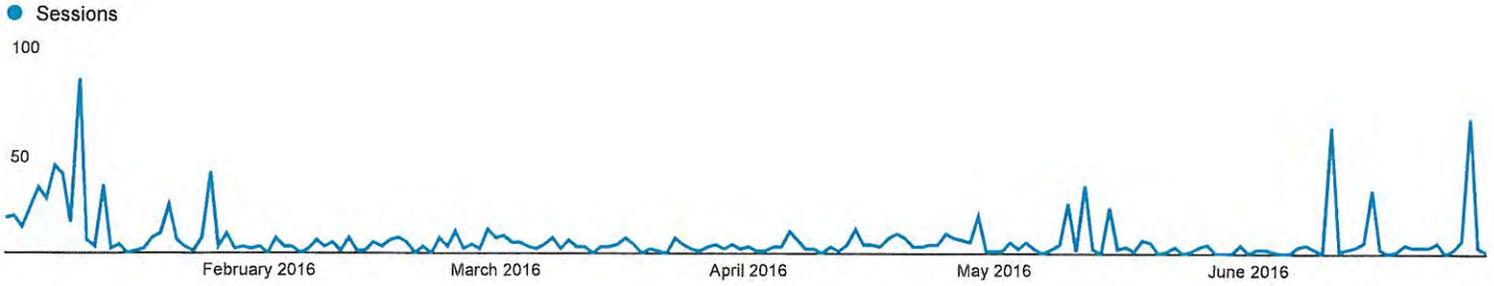
Elementary School	
Middle School	
High School	

Audience Overview

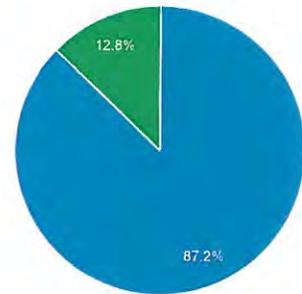
Jan 1, 2016 - Jun 30, 2016

All Users
100.00% Sessions

Overview



■ New Visitor ■ Returning Visitor

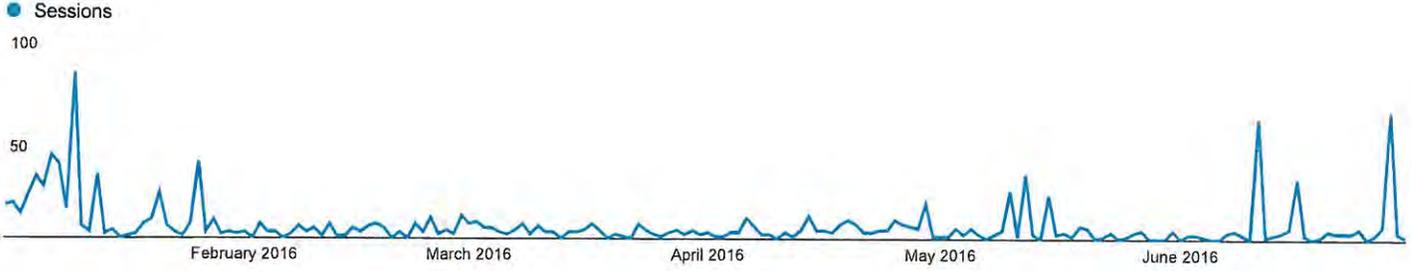


Language	Sessions	% Sessions
1. en-us	589	51.13%
2. (not set)	401	34.81%
3. ru	109	9.46%
4. ru-ru	38	3.30%
5. pt-br	4	0.35%
6. c	2	0.17%
7. en	2	0.17%
8. de-de	1	0.09%
9. en-gb	1	0.09%
10. es-ar	1	0.09%

All Users
100.00% Sessions

Explorer

Summary



Browser	Acquisition			Behavior			Conversions		
	Sessions	% New Sessions	New Users	Bounce Rate	Pages / Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal Value
	1,152 % of Total: 100.00% (1,152)	87.15% Avg for View: 87.15% (0.00%)	1,004 % of Total: 100.00% (1,004)	77.43% Avg for View: 77.43% (0.00%)	1.60 Avg for View: 1.60 (0.00%)	00:01:09 Avg for View: 00:01:09 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 % of Total: 0.00% (0)	\$0.00 % of Total: 0.00% (\$0.00)
1. Chrome	725 (62.93%)	90.48%	656 (65.34%)	84.83%	1.38	00:00:36	0.00%	0 (0.00%)	\$0.00 (0.00%)
2. Internet Explorer	131 (11.37%)	80.15%	105 (10.46%)	53.44%	2.16	00:02:19	0.00%	0 (0.00%)	\$0.00 (0.00%)
3. Firefox	110 (9.55%)	77.27%	85 (8.47%)	53.64%	2.75	00:03:49	0.00%	0 (0.00%)	\$0.00 (0.00%)
4. Safari	107 (9.29%)	80.37%	86 (8.57%)	68.22%	1.61	00:01:29	0.00%	0 (0.00%)	\$0.00 (0.00%)
5. YaBrowser	26 (2.26%)	100.00%	26 (2.59%)	100.00%	1.00	00:00:00	0.00%	0 (0.00%)	\$0.00 (0.00%)
6. Opera	25 (2.17%)	76.00%	19 (1.89%)	96.00%	1.08	00:00:03	0.00%	0 (0.00%)	\$0.00 (0.00%)
7. Mozilla Compatible Agent	13 (1.13%)	100.00%	13 (1.29%)	100.00%	1.00	00:00:00	0.00%	0 (0.00%)	\$0.00 (0.00%)
8. Edge	5 (0.43%)	100.00%	5 (0.50%)	80.00%	1.60	00:00:08	0.00%	0 (0.00%)	\$0.00 (0.00%)
9. Mozilla	4 (0.35%)	100.00%	4 (0.40%)	100.00%	1.00	00:00:00	0.00%	0 (0.00%)	\$0.00 (0.00%)
10. Android Browser	3 (0.26%)	100.00%	3 (0.30%)	66.67%	1.00	00:00:05	0.00%	0 (0.00%)	\$0.00 (0.00%)
11. Safari (in-app)	2 (0.17%)	50.00%	1 (0.10%)	50.00%	1.50	00:00:08	0.00%	0 (0.00%)	\$0.00 (0.00%)
12. semanticbot	1 (0.09%)	100.00%	1 (0.10%)	100.00%	1.00	00:00:00	0.00%	0 (0.00%)	\$0.00 (0.00%)

Rows 1 - 12 of 12

**Middle Rio Grande Stormwater Quality Team
Annual Member
Cooperative Funding Agreement**

This Cooperative Funding Agreement is made and entered into this 21st day of July, 2014, by and among the County of Bernalillo, the City of Albuquerque (“COA”), the Albuquerque Metropolitan Arroyo Flood Control Authority (“AMAFCA”), the New Mexico Department of Transportation (“NMDOT”), and the Southern Sandoval County Arroyo Flood Control Authority (“SSCAFCA”), all political subdivisions of the State of New Mexico (hereinafter collectively referred to as the “Storm Water Team”), and City of Rio Rancho (hereinafter referred to as “Annual Member”).

WHEREAS, the Intergovernmental Agreement Regarding the Operation, Function, and Funding of the Storm Water Team, as amended by the First Amendment thereto dated January 22, 2014 (“Intergovernmental Agreement”), provides that potentially eligible MS4s may be added to the Team at any time on an annual basis as additional voting members, provided all requirements for membership have been fulfilled, including providing payment for the expected contribution; and

WHEREAS, the Storm Water Team wishes to add the Annual Member as an additional voting member to the Team on an annual basis; and

WHEREAS, the Annual Member wishes to be added to the Team as an additional voting member on an annual basis; and

WHEREAS, the Annual Member agrees to fulfill all requirements for membership, including providing payment for its expected annual contribution; and

NOW, THEREFORE, in consideration of the covenants and promises set forth herein, the Annual Member agrees as follows:

1. The Annual Member will be invoiced by the Storm Water Team for its annual contribution for Fiscal Year 2015 as tabulated below. The Annual Member agrees to pay the annual contribution to the Storm Water Team’s fiscal agent within forty-five (45) days of the date of invoice. Failure to provide payment prior to the deadline will result in the Annual Member’s membership being suspended as provided for in the Intergovernmental Agreement.

2. Upon payment of the annual contribution and fulfillment of any other requirements of membership, the Storm Water Team will update Attachment A, Contribution Schedule, and Attachment B, Annual Roster, to include the Annual Member.

**Middle Rio Grande Stormwater Quality Team
Annual Member
Cooperative Funding Agreement**

3. The Annual Member agrees that by executing this Agreement it is subject to the requirements of the Intergovernmental Agreement as it may be amended from time to time, which is hereby incorporated by reference as if fully set forth herein. The Annual Member agrees to abide by the terms and conditions of the Intergovernmental Agreement as it may be amended from time to time.

4. This Agreement, including Annual Member's membership on the Team, shall be effective for the 2015 fiscal year. This Agreement may be extended beyond the initial fiscal year for additional one (1) year periods running concurrently with the fiscal year. Any extension must be completed in writing at the initiative of and authorization of AMAFCA, as the fiscal agent of the Storm Water Team, with concurrence of the Annual Member. All extensions are subject to the terms set forth herein, provided however, that the annual contribution for any subsequent years shall be established by the Storm Water Team in the Contribution Schedule, which shall be incorporated fully as if set forth herein.

5. The Annual Member's contact, designated voting member, and billing information is as follows:

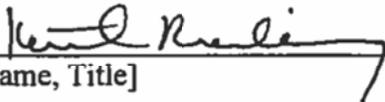
Annual Member Entity:	City of Rio Rancho
Designated Voting Member:	Eugene Pettes 3200 Civic Center Circle NE Rio Rancho, NM 87144 505-891-5045 xpettes@rio-rancho.nm.us
Billing Instructions:	check
Expected Contribution:	\$10,000.00

The Annual Member agrees to immediately notify the Storm Water Team and its fiscal agent in the event of any changes to the information listed herein.

Middle Rio Grande Stormwater Quality Team
Annual Member
Cooperative Funding Agreement

Date: 11/4/14

City of Rio Rancho



[Name, Title]

Keith Riesberg
City Manager



City of Rio Rancho

3200 Civic Center Circle NE
Rio Rancho, New Mexico 87144-4501
(505) 981-5005 • FAX (505) 891-0986

June 20, 2016

US EPA, Region 6
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue
Dallas, Texas 75202-2733

RE: Albuquerque Metropolitan Area Municipal Separate Storm Sewer System (MS4) Wet Weather Monitoring Site Certification, Permit No. NMR04A000

Per Table 10, Wet Weather Monitoring Program Implementation Schedules, enclosed as Attachment 2 in the letter from EPA Region 6 dated February 10, 2016, the City of Rio Rancho submits certification that the wet weather monitoring sites in the Middle Rio Grande are operational and ready for sampling. As a member of the Middle Rio Grande Stormwater MS4 Compliance Monitoring Cooperative, the City of Rio Rancho meets the criteria for a permittee with a cooperative program and qualifies for the cooperative deadline of June 21, 2016. Copies of the Intergovernmental Agreement and Cooperative Monitoring Plan are attached. Please contact Xavier Pettes by phone at 505-891-5045 or by email at xpettes@rmm.gov if you have any questions regarding the agreement or plan.

CERTIFICATION STATEMENT

I, the undersigned, certify under penalty of law that this document, the Intergovernmental Agreement that creates the Middle Rio Grande Stormwater MS4 Compliance Monitoring Cooperative, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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.



David Serrano, P.E.
Engineering Division Manager

6/20/2016

Date

Middle Rio Grande Stormwater MS4 Compliance Monitoring Cooperative

INTERGOVERNMENTAL AGREEMENT

AN INTERGOVERNMENTAL AGREEMENT, CREATING THE MIDDLE RIO GRANDE MS4 COMPLIANCE MONITORING COOPERATIVE, IN SUPPORT OF COMPLIANCE EFFORTS FOR A STORMWATER DISCHARGE PERMITTING SYSTEM FOR THE MIDDLE RIO GRANDE VALLEY IN ACCORDANCE WITH THE FEDERAL CLEAN WATER ACT.

RECITALS

WHEREAS, the United States Environmental Protection Agency (EPA), Region 6 regulates the discharge of stormwater from municipal separate storm sewer systems (MS4s) in central New Mexico through the issuance of an MS4 permit for the Middle Rio Grande valley urbanized area, under the authority of the National Pollutant Discharge Elimination System (NPDES) regulations (40CFR122); and

WHEREAS, the Middle Rio Grande valley urbanized area is comprised of many diverse local, state, federal and tribal entities, each with separate and distinct authority and responsibilities; and

WHEREAS, the Middle Rio Grande valley urbanized area entities that are eligible for authorization under NPDES General Permit No. NMR04A000 (hereinafter "MS4 Permit"), and therefore eligible to enter into this Intergovernmental Agreement (hereinafter "Agreement") in furtherance of the requirements of the MS4 Permit, are the City of Albuquerque, Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), University of New Mexico, New Mexico Department of Transportation District 3, Bernalillo County, Sandoval County, Village of Corrales, City of Rio Rancho, Village of Los Ranchos de Albuquerque, Kirtland Air Force Base, Town of Bernalillo, State Fairgrounds/Expo New Mexico, Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), Eastern Sandoval County Arroyo Flood Control Authority (ESCAFCA), Sandia National Laboratories/Department of Energy, Pueblo of Sandia, Pueblo of Isleta, and Pueblo of Santa Ana (collectively "Co-permittees"); and

WHEREAS, the proposed MS4 Permit requires each Co-permittee to obtain and report stormwater compliance monitoring results in their MS4 Annual Report; and

WHEREAS, the proposed MS4 Permit encourages cooperative efforts among the Co-permittees, including compliance monitoring activities, to reduce the amount of pollutants discharged with stormwater into the Rio Grande; and

WHEREAS, cooperation among the Co-permittees in the MS4 Permit through the Middle Rio Grande Compliance Monitoring Cooperative ("CMC"), with regard to monitoring requirements, offers the opportunity to reduce each individual Co-permittee's monitoring costs by cooperatively developing, funding, and executing a common monitoring plan without reducing the effectiveness of the monitoring plan.

MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
INTERGOVERNMENTAL AGREEMENT
FINAL

5-24-2016

NOW, THEREFORE, BE IT AGREED THAT:

1. **PURPOSE.** The CMC will serve as the focal point for the development, execution, and, as needed, the amendment of the Monitoring Plan required as part of the MS4 Permit. The intent of the CMC is to attain and demonstrate permit compliance for member Co-permittees with respect to the provisions of the MS4 Permit. The Monitoring Plan will be developed cooperatively among the member Co-permittees of the CMC.

2. **ELIGIBILITY.** All Co-permittees specifically identified in the MS4 Permit are eligible to be members of the CMC.

3. **MEMBERSHIP.** The CMC will include as members all Co-permittees that have signed this Intergovernmental Agreement ("Members"). Members are expected to provide funding for the ongoing operations of the CMC and to contribute financially or materially to the benefit of the CMC, either from their own assets or through the securing of contributions from others. The Members shall elect a Chairman of the CMC. The Chairman shall be elected by a majority vote of the members.

4. **VOTING.** The CMC will be made up of one voting Member from each Co-permittee in good standing, which is defined as having paid their expected contribution, as defined in the Contribution Schedule included as Attachment 1. Attachment 1 shall be updated annually by the Fiscal Agent (See Paragraph 7) to reflect Members in good standing. Each Member will designate a staff person to represent the Member's interest on the CMC and to vote on that Member's behalf. Designation of a representative may be completed at any time and under any circumstances. Other/outside agencies may participate on the CMC by attending meetings and giving input; however, only the Members in good standing may vote on CMC decisions. Decisions of the CMC will be decided by majority vote of the Members in good standing. The CMC may take action during a meeting, by telephone, or by e-mail.

5. **TERM.** The term of this Agreement shall run from the date the MS4 Permit is issued by the EPA until the date the MS4 Permit is terminated or expires, whichever occurs first. This Agreement may be terminated in its entirety at any time upon the mutual agreement of all of the then-existing Members to this Agreement.

6. **FISCAL MATTERS.** In the first Calendar Year of this Agreement, the CMC will meet to develop a budget based on the costs for implementing the Monitoring Plan for MS4 Permit compliance. To ensure sufficient funding is available to carry out the Monitoring Plan, the budget shall equal 110% of the estimated costs associated with the Monitoring Plan, including estimated contingencies. In subsequent years, the budget will be based on the actual expenditures from the prior year's monitoring activities plus any reasonable increases identified by the CMC. Each Member shall commit funding to the CMC based on the Contribution Schedule established for that year, which Contribution Schedule shall be in a total amount of not less than the budgeted costs. In-kind contributions shall be permitted in lieu of all or a portion of a Members cash contribution,

**MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
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provided however, that participation in the CMC shall not be considered in-kind contributions. The value of in-kind contributions will be determined by the membership of the CMC by equating the value of the service to the cost that would be paid by the membership of the CMC to have the in-kind service performed by a third party (non-CMC member) contractor. The Contribution Schedule is located in Attachment 1 to this Agreement. This Contribution Schedule may be modified by the CMC annually without requiring modification to this agreement, provided however, that it shall be adopted by unanimous vote of the Members. Any funds remaining at the end of the Agreement Year will be carried into the next Calendar Year of this agreement. In such event, the CMC may either elect to retain the excess funds from the prior Calendar Year as a contingency fund, or may lower the annual contribution schedules for that year for all Members in equal proportion, based on the total amount carried forward. In the event a Member does not have the resources to provide full payment for any funds required by the Contribution Schedule, the remaining Members may agree, by unanimous vote, amend the Contribution Schedule if it is in the best interest of the CMC. Each Member's obligations under this Agreement are contingent upon sufficient appropriations being made therefor by such Member's governing body sufficient to fulfill such Member's said obligations. If such appropriations are insufficient to such Member's obligations hereunder, such Member's shall promptly notify the other Members, and this Agreement shall terminate forthwith with respect to such Member.

7. FISCAL AGENT. The Members shall select one (1) Co-permittee to act as Fiscal Agent for the CMC for the purposes of this Agreement. The Fiscal Agent shall act as the custodian of the CMC's funds, securities, and property. All funds will be held in a separate bank account for the purposes of this Agreement. All CMC funds shall be deposited promptly by the Fiscal Agent to the credit of the CMC. The CMC shall adhere to the Fiscal Agent's accounting and procurement procedures, provided such procedures comply with law. The Fiscal Agent shall make available to any interested Member, all records, receipts, and other documentation with respect to all matters concerning this agreement and shall have this account included in its annual audit. The Fiscal Agent shall maintain funds in accordance with all applicable state and Federal statutes. The Fiscal Agent shall be authorized on the CMC's behalf to sign checks, drafts, or other instruments for payment of money, acceptances, notes, or other evidences of indebtedness, to enter into contracts, or to execute and deliver other documents and instruments. This authority to enter into any contract or negotiated agreement shall be subject to approval by the CMC and subject to any limitations as set forth in this Agreement. Subject to the provisions of this Agreement, no loans shall be contracted on behalf of the CMC and no evidence of indebtedness shall be issued in its name unless authorized by a unanimous vote of the CMC Members. In consideration of the in-kind contributions anticipated from the Fiscal Agent, the total financial contribution requirements of the Fiscal Agent's Member agency, under any applicable agreement, shall be credited by the sum of one thousand dollars (\$1,000.00) for the term of the permit in which that Member serves as the Fiscal Agent.

8. PAYMENTS. The Fiscal Agent will invoice each Member for their respective participation, minus the values of any CMC approved in-kind contributions at the start of each member entity's Fiscal Year. Each Member will pay such invoices to the Fiscal Agent within one hundred twenty (120) days of the date of the invoice. Failure to pay invoices within 120 days of

**MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
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the date of the invoice shall deem the Member not in good standing status until payment is made in full. Invoices will be sent to CMC Member entities listed in Attachment 1.

9. PARTICIPATION. It is intended that the CMC's operation and function described in this Agreement are ongoing, subject to continued support and authorized funding by each of the Members. Each Member has the option to not participate in this Agreement in the future by sending written notice to all the other participating Members twelve (12) months prior to the Member's proposed withdrawal. This time requirement is made so that all Member Co-permittees will have the opportunity to update their Storm Water Management Plans (SWMP) to reflect the change in status of the cooperative sampling effort and obtain EPA's concurrence on the amended SWMP. In such an event, the terminating Member shall not be entitled to return of any contribution(s) made under this Agreement, and this Agreement shall remain in full force and effect by and among the remaining Members.

10. OUTSIDE CONTRIBUTIONS. The CMC may accept contributions from outside funding sources, to be used to support the CMC's mission. Such contributions shall not establish any voting privileges on the CMC, which privileges are reserved exclusively to eligible Members. Outside contributions shall be supplementary to the Contribution Schedule, and no Member's contribution shall be reduced based on receipt of any outside contributions except upon adoption of an amended Contribution Schedule by the Members.

11. CONTRACTING. Each Member agrees that a variety of contractors (e.g. sample collection, laboratory, sample results interpretation, geotechnical, etc.) may need to be hired in accordance with the State Procurement Code, in advance of any contractor taking any actions on behalf of the CMC. No contractor shall be an employee of either the Fiscal Agent or any Member of this Agreement. Responsibilities of the contractor shall be included in any resulting contract and the contractor shall only be authorized to provide approved services determined to help Member Co-permittees comply with the provisions of the MS4 permit. For procurement purposes, the CMC will form a Selection Advisory Committee ("SAC"), composed of representatives from Members in good standing. Each Member in good standing will have one representative on the SAC for the RFP process. The SAC will rank proposals and recommend the top three respondents to the Fiscal Agent for selection through the Fiscal Agent's existing procurement selection process. Upon approval, the Fiscal Agent will negotiate an agreement with the selected contractor. The CMC will provide input on scope and fees; however, final negotiations and approval will be the Fiscal Agent's responsibility. If contractor services are obtained using the procurement process set forth in this paragraph, then, with concurrence of the other members of the CMC, funds collected as part of the CMC group may be used to pay that contractor directly for services associated with execution of the monitoring plan. Contractors will be agents of the Member issuing the contract. Other Members of the CMC shall not be bound by the terms of the contract but shall be deemed third party beneficiary hereunder.

12. ALTERNATIVE CONTRACTING. As an alternative contracting process, and in order to leverage existing and future contracts between Contractors and Members in good standing of the CMC, contracts may be used, with concurrence from all Members of the CMC,

**MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
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that have been issued by Members to perform elements of the monitoring program. If a contractor is used that has been procured by a Member in good standing of the CMC instead of the Fiscal Agent, then, with concurrence of the other Members of the CMC, an entity that is not the Fiscal Agent for the CMC may contract to have the services performed and upon successful completion of the services, submit an invoice, with no mark-up, to the Fiscal Agent for reimbursement. Reimbursement shall only be authorized for reasonable and necessary costs. All contractor's utilized for the purposes identified in this Agreement shall be procured in accordance with the State Procurement Code. Contractors will be agents of the Member issuing the contract. Other Members of the CMC shall not be bound by the terms of the contract.

13. **EVALUATION.** The Members agree that the Stormwater Monitoring contract is an ongoing program. The effectiveness of the Stormwater Monitoring contract, with regard to permit compliance, will be evaluated by the CMC prior to annual renewal(s) or request for proposals.

14. **LIMITATION ON SAMPLING ACTIVITIES.** The contractor's scope of services will be limited to the CMC-developed and EPA approved sampling plan and associated reporting. If, in the event of an exceedence during routine monitoring events, additional investigation is required by the EPA to identify the source of a potential contaminant, the CMC may expand monitoring activities to the degree necessary to locate the likely entry point of the potential contaminants. Once the likely entry point is identified, further investigation into the source of the potential contaminant will become the responsibility of the specific Co-permittee(s) having jurisdiction at the location where the likely entry occurred. The CMC shall have no responsibility, fiscal or otherwise, to investigate potential sources of contamination outside of the river or its affiliated Middle Rio Grande Conservancy District-owned water conveyances.

15. **PARTICIPATION AFFECTED.** If any situation arises which adversely affects any Member's participation in this Agreement, said Member will immediately, and in writing, notify the other Members. Any circumstance that materially affects this Agreement will be promptly and equitably resolved by all Members and if necessary, an amendment to this Agreement shall be executed.

16. **COMPLIANCE WITH GOVERNING LAWS.** The obligations of each Member under this Agreement shall be performed in compliance with all applicable laws, statues, and ordinances. Nothing herein is intended to constitute any agreement for the Members to perform any activity in violation of the Constitution or Laws of the State of New Mexico or the Ordinances of any Co-permittee that is a Member of this Agreement.

17. **SEVERABILITY.** If any clause or provision of this Agreement is illegal, invalid or unenforceable, under present or future laws effective during the term of this Agreement, then and in that event, it is the intention of the Members hereto that the remainder of this Agreement shall not be affected thereby.

MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
INTERGOVERNMENTAL AGREEMENT
FINAL

5-24-2016

18. **NO RIGHTS CREATED.** It is specifically agreed among the Members that this Agreement does not, and is not intended to, create in the public, or any member thereof, any rights whatsoever, such as but not limited to, the rights of a third Party beneficiary, and does not authorize anyone not a Member of this Agreement to maintain a suit for wrongful death or any other claim whatsoever.

19. **LIABILITY.** As among the Members, each shall be solely responsible for any and all liability from personal injury, including death, or damage to property, arising from any negligent or intentional act or failure to act of the respective Member, its officials, agents, contractors or employees pursuant to this Agreement. Liabilities of each Member shall be subject to the immunities and limitation of the New Mexico Tort Claims Act, §§41-4-1, et seq., NMSA, 1978, and any amendments thereto. By entering into this Agreement, all public agencies and its "public employees" as defined in the New Mexico Tort Claims Act, do not waive sovereign immunity, do not waive any defense and/or do not waive any limitation of liability pursuant to law. No provision in this Agreement modifies and/or waives any provision of the New Mexico Tort Claims Act.

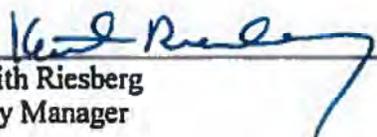
20. **AMENDMENT.** This Agreement may only be altered or amended upon written approval by a majority of the CMC Members.

21. **DATE OF EFFECTIVENESS.** Regardless of the date when this Agreement is signed by each Permittee, this agreement shall not become effective for each Permittee until that Permittee has received official notification from the Environmental Protection Agency that they have received coverage under NPDES General Permit No. NMR04A000.

MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
INTERGOVERNMENTAL AGREEMENT
FINAL

5-24-2016

City of Rio Rancho



Keith Riesberg
City Manager

5/27/16

Date

Approved as to Form:



Jennifer Vega-Brown
City Attorney

Date: 5/20/16

Date for of beginning of Fiscal Year: July 1

**MIDDLE RIO GRANDE STORMWATER
MS4 COMPLIANCE MONITORING COOPERATIVE
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FINAL**

5-24-2016

**ATTACHMENT I
CONTRIBUTION SCHEDULE**

ATTACHMENT 1

Sampling Cooperative Cost Allocation Determination (CAD) Tool

28-Apr-16

Number	Participant			ENTITY PAYMENT	FISCAL AGENT CREDIT (\$1k)
1	City of Albuquerque	1.38	\$ 132,000.00	\$45,600.00	
2	AMAFCA	0.43	\$ 14,319.39	\$14,400.00	\$ (1,000.00)
3	UNM	0.41	\$ 13,553.53	\$13,600.00	
4	NMDOT	0.12	\$ 3,865.56	\$3,900.00	
5	Bernalillo County	0.59	\$ 19,549.95	\$19,600.00	
6	Sandoval County	0.46	\$ 15,094.20	\$15,100.00	
7	Village of Corrales	0.04	\$ 1,393.20	\$1,400.00	
8	City of Rio Rancho	0.42	\$ 13,997.46	\$14,000.00	
9	Los Ranchos de Albuquerque	0.02	\$ 705.79	\$1,000.00	
10	Town of Bernalillo	0.03	\$ 903.81	\$1,000.00	
11	ESCAFCA	0.01	\$ 338.88	\$500.00	
12	SSCAFCA	0.08	\$ 2,703.72	\$2,900.00	
	Ratio Check (Sum = Weighting Factor)	4.00		\$132,000.00	

Middle Rio Grande Stormwater MS4 Technical Advisory Group

MEMORANDUM OF AGREEMENT

A COOPERATIVE AGREEMENT, CREATING THE MIDDLE RIO GRANDE MS4 TECHNICAL ADVISORY GROUP, IN SUPPORT OF COMPLIANCE EFFORTS FOR A STORMWATER DISCHARGE PERMITTING SYSTEM FOR THE MIDDLE RIO GRANDE VALLEY IN ACCORDANCE WITH THE FEDERAL CLEAN WATER ACT.

WHEREAS, the United States Environmental Protection Agency (EPA), Region 6 regulates the discharge of stormwater from municipal separate storm sewer systems (MS4s) in New Mexico through the issuance of an MS4 permit for the Middle Rio Grande valley urbanized area under the authority of the National Pollutant Discharge Elimination System (NPDES) regulations (40CFR122); and

WHEREAS, the Middle Rio Grande area is comprised of many diverse local, state, federal and tribal entities, each with separate and distinct authority and responsibilities; and

WHEREAS, the Middle Rio Grande area entities potentially eligible for authorization under the proposed NPDES General Permit No. NMR04A000 (hereinafter "MS4 Permit") and therefore are eligible to enter into this Agreement (hereinafter "Agreement") in furtherance of the requirements of the MS4 Permit are the City of Albuquerque, Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), University of New Mexico, New Mexico Department of Transportation District 3, Bernalillo County, Sandoval County, Village of Corrales, City of Rio Rancho, Los Ranchos de Albuquerque, Kirtland Air Force Base, Town of Bernalillo, State Fairgrounds/Expo New Mexico, the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), the Eastern Sandoval County Arroyo Flood Control Authority (ESCAFCA), Sandia National Laboratories/Department of Energy, Pueblo of Sandia, Pueblo of Isleta, and Pueblo of Santa Ana (collectively "Stormwater Management Entities"); and

WHEREAS, the proposed MS4 Permit encourages cooperative efforts among separate local, state, federal and Tribal governments to reduce the amount of pollutants discharged with stormwater from the Middle Rio Grande urbanized area MS4s; and

WHEREAS, continued cooperation among the Stormwater Management Entities in the MS4 Permit offers an enhanced opportunity each entity to remain aware of the requirements in the MS4 Permit and facilitating compliance with conditions of the permit;

NOW, THEREFORE, BE IT AGREED THAT:

1. The signatories to this Agreement (hereinafter collectively referred to as "Parties" and individually referred to as "Party") support and encourage a cooperative commitment to assist one another with technical issues regarding compliance with the MS4 Permit and agree to form the Middle Rio Grande MS4 Technical Advisory Group (MS4TAG).

**MIDDLE RIO GRANDE STORMWATER
MS4 TECHNICAL ADVISORY GROUP
FINAL DRAFT**

9-30-13

2. The purpose of the MS4TAG will be to exchange technical information regarding compliance with the MS4 Permit, exchange ideas among Parties regarding compliance efforts, and exchange information regarding illicit discharges detected within each Party's jurisdiction. The MS4TAG shall have no binding financial authority and shall be strictly advisory in nature.

3. Nothing in this Agreement shall be construed as obligating a Party to this agreement to expend funds for any purpose, and no Party shall be required to contribute any funds in order to participate in this Agreement. In the event the Parties determine that any expenditure of funds becomes necessary in order to comply with the requirements of the MS4 Permit, a separate agreement shall be entered into between the affected Parties regarding any and all such expenditures at that time.

4. The term of this Agreement shall run from the date the MS4 Permit is issued by the EPA until the date the MS4 Permit is terminated or expires, whichever occurs first. This Agreement may be terminated in its entirety at any time upon the mutual agreement of all of the then-existing Parties to this Agreement. In the event any Party wishes to withdraw from this Agreement without terminating the other Parties' interests in this Agreement, withdrawal shall become effective upon ninety (90) days prior written notice to the other Parties. Withdrawal shall fully and completely terminate that Party's interest in and obligations under this Agreement. Following any Party's withdrawal, this Agreement shall continue in full force and effect as to all remaining Parties to the extent possible.

5. This Agreement does not address the "Public Education and Outreach: or "Cooperative Sampling" sections of the MS4 Permit. Any MS4TAG efforts regarding either of these sections of the MS4 Permit under this Agreement shall be strictly in furtherance of the spirit of cooperation intended among the Parties. Each Party acknowledges its obligations under the "Public Education and Outreach" and "Cooperative Sampling" sections of the MS4 Permit are separate and apart from its activities under this Agreement, and a separate agreement will be required for any collaboration among the Parties with respect to those permit requirements.

6. The Parties will appoint two (2) Co-Coordiators from among the Parties, one of which must be from a Party located within the Bernalillo County geographical area and one of which must be from a Party located within the Sandoval County geographical area. Appointment of a Co-Coordinator shall be by majority vote of the voting Parties, with only those Parties located in the county of Bernalillo voting on the Co-Coordinator from that area, and only those Parties located in the county of Sandoval voting on the Co-Coordinator from that area. Co-Coordiators must be appointed annually in each subsequent permit year, or earlier if the position becomes vacant for any reason. For the New Mexico Department of Transportation District 3, which operates stormwater management facilities in both counties, for the purposes of this section, they shall select one county affiliation in year one of the agreement and alternate affiliations in subsequent years of this Agreement. The Co-Coordiators will be expected to coordinate the Parties' efforts under this Agreement, including facilitating meetings of the MS4TAG at least monthly for the first year of the MS4 Permit. In years two through five of the permit, the frequency of meetings may be reduced to quarterly with additional meetings called as necessary to discuss issues regarding MS4 Permit compliance.

7. Each Party shall be entitled to one (1) vote on any action items.

8. This Agreement creates no obligations on behalf of any Party to any other Party to this Agreement, including for any requirements imposed or determinations made by EPA. The Parties acknowledge and agree that each shall at all times remain individually liable for full compliance with the requirements of the MS4 Permit, including EPA's determination regarding the implementation schedule.

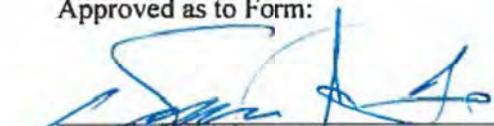
9. This Agreement may be modified in writing at any time upon the mutual agreement of the Parties.

10. Parties can be added at any time during the life of this Agreement. A potential future Party's submittal of a signature page to the Co-Coordinator and approval by the Co-Coordinator shall add the Party to the Agreement.

NOTE: Each approving entity would have a separate signature page

City of Rio Rancho

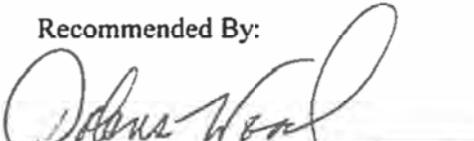
Approved as to Form:



City Attorney

Date: 10/1/13

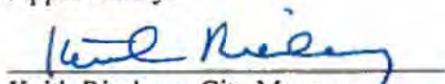
Recommended By:



Dolores Wood, Director

Date: 11.4.13

Approved By:



Keith Riesberg, City Manager

Date: 11/1/13



City of Rio Rancho

3200 Civic Center Circle NE
Rio Rancho, New Mexico 87144-4501
(505) 981-5005 • FAX (505) 981-5203

December 19, 2015

SENT VIA EMAIL

Ms. Nelly Smith
Municipal Stormwater Coordinator
EPA Region 6
Permits and Technical Assistance Section
1445 Ross Ave., Suite 1200
Dallas, TX 75202

Re: NPDES General Permit No. NMR04A000 - Proposed Monitoring Plan

Dear Ms. Smith,

Please consider the attached document as City of Rio Rancho's formal submittal of our proposed monitoring plan for NPDES General Permit No. NMR04A000. This submittal is being made in response to Part III.A.1.b., Cooperative Monitoring. The proposed cooperative monitoring agreement includes the following entities:

1. City of Albuquerque
2. City of Rio Rancho
3. Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA)
4. Eastern Sandoval County Arroyo Flood Control Authority (ESCAFCA)
5. Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA)
6. New Mexico Department of Transportation (NMDOT)
7. University of New Mexico (UNM)
8. Village of Corrales
9. Village of Los Ranchos de Albuquerque
10. Town of Bernalillo
11. Bernalillo County
12. Sandoval County

The above listed entities are currently negotiating the Cooperative Agreement for cost sharing. Upon completion of the Cooperative Agreement, the final membership of the agreement will be reported to the EPA and New Mexico Environment Department.

Should you require any further information, please feel free to contact Xavier Pettes at xpettes@rnm.gov or at 505-891-5045.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Serrano'.

David Serrano, PE
Engineering Division Manager

Enclosure: Cooperative Monitoring Plan
Sampling Location Map

Cc: Sarah Holcomb, New Mexico Environment Department

City of Rio Rancho
Cooperative Monitoring Plan – MS4 Watershed-based permit
December 17, 2015

Sampling must be conducted at a minimum of seven (7) events per sampling location during the permit term with at least three (3) events in the wet season and two (2) events in the dry season. Seasonal monitoring periods are the Wet Season: July 1 – October 31 and Dry Season: November 1 – June 30. Monitoring methodology for both seasons will consist of collecting a minimum of four grab samples spaced at a minimum interval of 15 minutes each. Individual grab samples for each sampling location, will be preserved and combined into a single composite sample at the laboratory.

Qualifying Storm Event

Due to the nature of rainfall in the middle Rio Grande Valley, the MS4s are proposing that a qualifying event be defined as a 0.25-inch or greater storm anywhere in the watershed that creates a discharge to the Rio Grande. Additionally, no antecedent dry period will be required in order to ensure that a sufficient number of qualifying events are available for sampling.

In order to determine whether or not a qualifying storm event has occurred, the MS4s may use a variety of different data sources for representative locations within the watershed to identify the qualifying storm event. Sources for determining a qualifying storm event may include, CoCoRahs, wundermap.com data, calibrated National Weather Service radar, and/or USGS weather data based on rainfall measurements taken within the watershed.

Wet Weather Monitoring (Wet Season: July 1 – October 31/Dry Season: November 1 – June 30)

Wet weather monitoring gathers information on the response from the receiving waters to wet weather discharges. The following parameters must be sampled: TSS, TDS, COD, BOD5, DO, TPH/oil, E.coli, pH, total kjeldahl nitrogen, nitrate plus nitrite, dissolved phosphorus, ammonia plus organic nitrogen, phosphorus, PCBs and gross alpha. DO, pH, conductivity, and temperature must be analyzed in the field within 15 minutes of sample collection.

Sampling Locations

Rio Grande (NORTH)- In stream sampling within the Rio Grande will be performed upstream of the Angostura Diversion Dam at the north end of the water shed (upstream or background)..

Rio Grande (SOUTH) – In stream sampling within the Rio Grande will be performed at the Isleta Bridge at the south end of the watershed and downstream of all inputs from the Urban Area to the river to provide the downstream water conditions.

These locations have been identified and are proposed to meet the permit requirements as identified in Part III.A. These up and down stream sample locations capture all inputs to the river within the Urbanized Area. See Attachment 1 for a map of sampling locations.

Sample Collection

The greatest difficulty the MS4s will have in sample collection are the logistics for collecting the sample(s) and getting them to the laboratory within the required holding time limitations for each sample type, particularly E.coli. In order to expedite this process, the MS4s are proposing the following actions:

1. On days where rainfall in excess of the qualifying storm event are predicted to take place within a timeframe where an in-stream sample can be collected and delivered to the laboratory in time to meet holding time requirements, the upstream sample (Angostura Diversion Dam) will be collected by noon (12:00 PM) on the day of the predicted event.
2. After collection of the upstream samples, the e-coli sample will be submitted to the laboratory for analysis and the remaining samples will be preserved as required and held until the determination can be made regarding whether or not there is a Qualifying Storm Event.
3. When a Qualifying Storm Event is anticipated within the watershed, a river staging timing methodology will be used to identify the proper time for the sample to be taken from the downstream location(s) per Table 1. For example, if it typically takes one hour for water from the North Diversion Channel to reach the Isleta Bridge sampling location, then the sample will be taken one hour after the discharge from the NDC has occurred.
4. Upon collection of the downstream sample(s) from the Isleta Bridge location, the e-coli sample(s) will be taken to a laboratory for analysis and the balance of the samples will be preserved, as required, and held until the determination can be made regarding whether or not there is a Qualifying Storm Event.
5. In the event that a Qualifying Storm Event is NOT recorded, all non-e-coli samples will be dumped and not analyzed. In the event a Qualifying Storm Event is recorded, samples (upstream and downstream) will be submitted to a laboratory for analysis.

During sample collection, the sampler shall maintain a log book recording the site conditions at the time of sampling, actions taken to collect the samples, and any other pertinent information that may be relevant to the sample event. All collected samples shall have a chain-of-custody form associated with each sample container. This chain-of-custody form shall be maintained by the sampler until the sample is delivered to the laboratory for analysis. Greater detail will be contained in the Quality Assurance Program Plan (QAPP) that will be developed for this plan.

Example CoCoRaHS Rain Gages and Assumed Travel Times for Sampling Stormwater Events in Watershed						
Zonal Segments of River (north to south travel times)		Western Side of Watershed (west to east travel times)		Rio Grande	Eastern Side of Watershed (east to west travel times)	
		3 hours -->	1.5 hours -->		<-- 20 min.	<-- 40 min.
7.4 hours	Rio Grande at Angostura to Rio Grande at Alameda	NM-SN-59	NM-SN-70		N/A	N/A
4.4 hours	Rio Grande at Alameda to Rio Grande at Central	NM-BR-113	NM-BR-144		NM-BR-71	NM-BR-162
5.2 hours	Rio Grande at Central to Rio Grande at Isleta 147 Bridge	NM-BR-159	NM-BR-104		NM-BR-150	NM-BR-41

TABLE 1 – HYDROGRAPH TIMING FOR RAIN EVENTS TO SOUTHERN SAMPLING POINT

Rainfall information associated with the above Station Numbers can be obtained from the Community Collaborative Rain, Hail and Snow Network website (www.cocorahs.org). The Station Numbers provided in the table are for representative purposes only. The actual CoCoRaHS rainfall data utilized to confirm a Qualifying Event will be from the appropriate zone in the watershed but may not be from the exact Station Number listed in the table.

Response to Monitoring Results

In the event of an exceedance, the MS4 Sampling cooperative will examine all meteorological and stream gauge data available and correlate rainfall event/timing with sampling timing to determine the most likely source location and discharge point to the river. Once the most likely source location has been determined, MS4s will cooperatively develop a pollutant-specific response plan whose elements may include a review of land use for potential sources of the specific pollutant exceeded or enhanced public outreach and education to specific user or industry groups.

In the event of rainfall in the same distribution as the storm event associated with the exceedance, additional sampling may be conducted to monitor for potential sources, if appropriate. Only the constituent(s) identified in the exceedance will be analyzed.

Sample Collector Training Requirements

Any person collecting samples for compliance purposes shall be trained in the proper technique for collecting stormwater samples. Experience in the collection of stormwater samples may be

considered in lieu of receiving formal training in sampling requirements. Greater detail will be contained in the QAPP that will be developed for this plan.

Sample Analysis

After a sample collection event has been performed, the validity of the qualifying storm event must be determined before the samples can be counted as an official sample event. However, since the holding time for the E.coli is so short, the MS4s are proposing analyzing the E.coli samples prior to determining the validity of the storm event as a qualifying storm event. The balance of the samples will be held until the determination of the storm event as qualifying can be made. In the event that the storm event is deemed qualifying, the remaining samples will be run for the required parameters. If an event is deemed by an analysis of rainfall data to be non-qualifying, the results from the E.coli samples will be kept but not reported as part of the official sampling event for permit compliance and the preserved samples will be appropriately discarded without analysis.

Field obtained results (D.O., pH, and temperature) will be handled in a similar fashion as E.coli sampling results. In the event the storm is deemed qualifying during the review of rainfall data, the results from these field obtained measurements will be reported with the balance of the sample results. If the storm event is deemed non-qualifying, these results will be kept but not reported for permit compliance.

QAPP

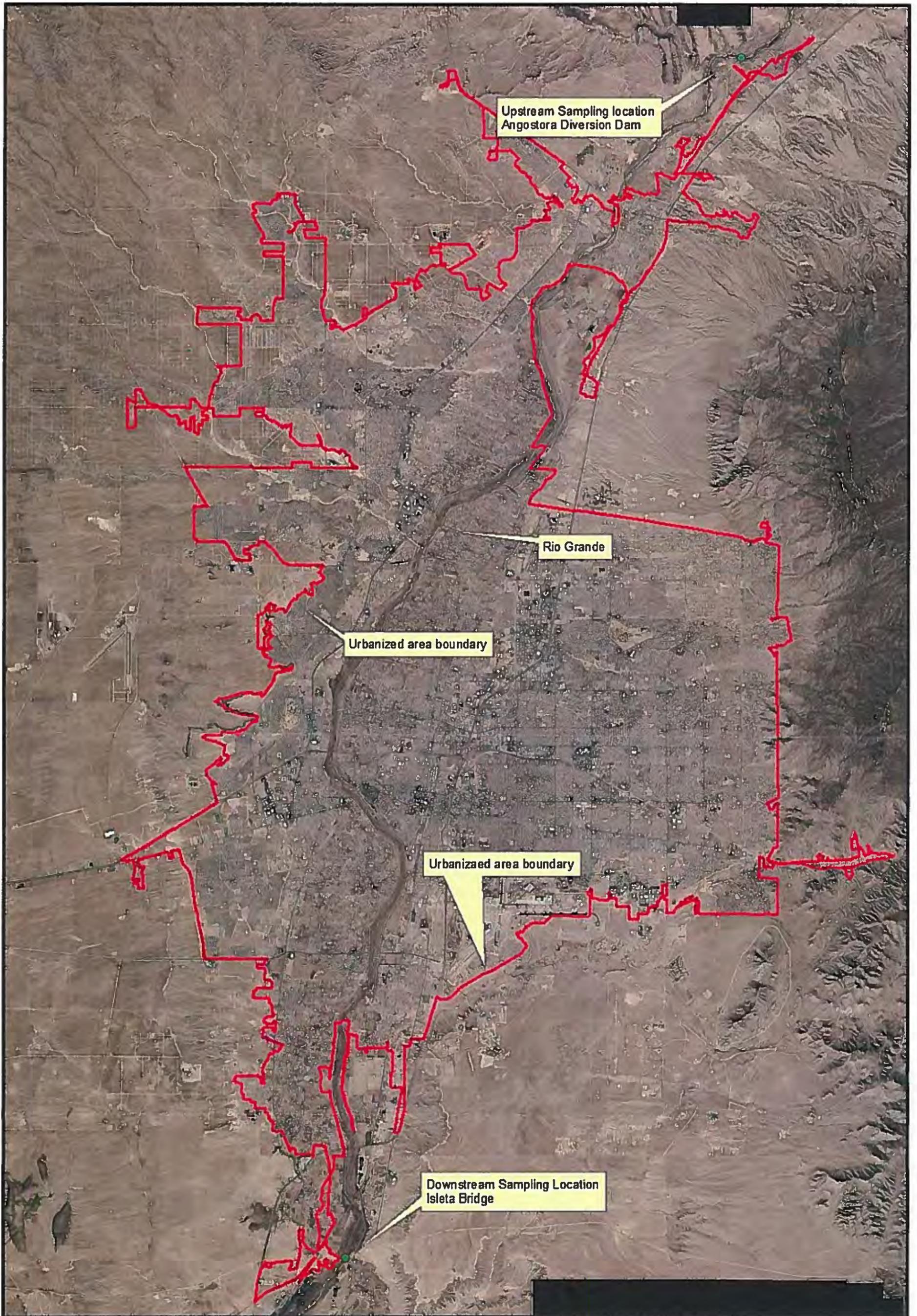
All sampling collection and analysis shall conform to the QAPP to be developed for the sampling program in accordance with Part III.A.5.b and III.Q. of the permit and the methods specified at 40 CRF §136.

Monitoring Records

A QAPP will be developed, conforming to Part III.P requirements.

Permittees Cooperating in Monitoring Program

City of Albuquerque
Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA)
University of New Mexico (UNM)
New Mexico Department of Transportation (NMDOT)
Bernalillo County
Sandoval County
Village of Corrales
City of Rio Rancho
Los Ranchos de Albuquerque
Town of Bernalillo
Eastern Sandoval County Arroyo Flood Control Authority
Southern Sandoval County Arroyo Flood Control Authority



<p>1 inch = 2.367424 miles</p>	WSB MS4 Sampling Locations	
		Southern Sandoval County Arroyo Flood Control Authority
		Date: November 13, 2015 Attachment 1

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)
 NAME City of Rio Rancho
 ADDRESS 3200 Civic Center Circle NE
 Rio Rancho, NM 87144

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 NMR04A007 PERMIT NUMBER
 RIO NORTH DISCHARGE NUMBER

Form Approved
 OMB No. 2040-0004

FROM 15 7 1 TO 16 6 30
 MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 Check here if No Discharge
 NOTE: Read Instructions before completing this form

FACILITY LOCATION Middle Rio Grande Urban Area

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE					
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
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PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER David Serrano, P.E. Engineering Div Mgr TYPED OR PRINTED											
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 GATHER AND EVALUATE THE INFORMATION SUBMITTED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.											
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							TELEPHONE		DATE		
							505 891-5059		2016 12 1		
							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No sample collected. Sampling plan for the Middle Rio Grande Collaborative Monitoring Group was not approved by EPA until 06/22/2016. No storm events occurred between 06/22/2016 and 06/30/2016.

PERMITTEE NAME/ADDRESS (include Facility Name/Location, if Different)
 NAME City of Rio Rancho
 ADDRESS 3200 Civic Center Circle NE
 Rio Rancho, NM 87144

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved,
 OMB No. 2040-0004

NMR04A007 PERMIT NUMBER
 RIO SOUTH DISCHARGE NUMBER

MONITORING PERIOD
 FROM YEAR 15 MO 7 DAY 1 TO YEAR 16 MO 6 DAY 30

FACILITY LOCATION Middle Rio Grande Urban Area

Check here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 								TELEPHONE 505 891-5059 2016 12 1	
								DATE	

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