



STORMWATER MANAGEMENT PLAN

OCTOBER 15, 2016

VILLAGE OF LOS RANCHOS DE ALBUQUERQUE
6718 RIO GRANDE BLVD.
LOS RANCHOS, NEW MEXICO 87107

INTRODUCTION

The Village of Los Ranchos is an incorporated municipality in the North Valley Area of the Albuquerque metropolitan urbanized area. The Village has an area of 4.5 square miles with the majority of the land being Agricultural/Residential. The 2010 Census listed 2,366 housing units in the Village, with a population of 6,024. The Village has an agricultural history, located in the Rio Grande valley, irrigations ditches weave through the area and numerous properties continue to flood irrigate. Receiving less than 10 inches average rainfall, properties are designed and maintained to collect and contain any available precipitation.

Los Ranchos is located within the Albuquerque Urbanized Area (UA), as identified in Census data. As part of the UA, Los Ranchos was required to obtain EPA - NPDES Stormwater Permit coverage in 2007 and to begin a program to reduce pollutant discharge to the Rio Grande from stormwater runoff. In 2014, EPA issued a new “Watershed Based” NPDES Stormwater Permit that provided coverage to the 11 entities included in the UA. The watershed based permit is one of the first permits in the nation designed to address stormwater discharges from a watershed perspective as opposed to regulating by political boundary. The other entities in the Watershed Based Permit are the City of Albuquerque, Bernalillo County, UNM, AMAFCA, City of Rio Rancho, Sandoval County, Town of Bernalillo, Village of Corrales, EXPO New Mexico, Kirtland AFB, and Sandia Labs.

The Village has a small storm sewer system which serves a portion of Fourth St. near the Osuna intersection. The system is approximately 3,600 feet in length with one outfall to the Alameda Drain which belongs to the Middle Rio Grande Conservation District, and is limited to a discharge flow of 0.5 cubic feet per second (cfs). All other areas of the Village are required to retain all stormwater on their property, or to discharge into engineered drainage ponds and/or infiltration systems.

This Stormwater Management Plan is prepared in compliance with the USEPA NPDES General Permit No. NMR04A000. The Plan is organized consistent with the Permit requirements.

Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
Discharges to Impaired Waters With Approved TMDLs - Part I.C.2.b.(i) and TABLE 1.a			
<p>According to the requirements in Part I.C.2.b.(i), if the permittee discharges to an impaired water body with an approved TMDL (see MS4 Permit, Appendix B), where stormwater has the potential to cause or contribute to the impairment, the permittee shall include in the SWMP controls targeting the pollutant(s) of concern along with any additional or modified controls required in the TMDL and this section. As stated in the Permit, Appendix B, a <u>bacteria TMDL</u> for the Middle Rio Grande was approved by the New Mexico Water Quality Control Commission on April 13, 2010, and by EPA on June 30, 2010. The new TMDL modifies: 1) the indicator parameter for bacteria from fecal coliform to E. coli, and 2) the way the WLAs are assigned</p> <p>The SWMP and required annual reports must include information on implementing any focused controls required to reduce the pollutant(s) of concern as described below:</p>	<p>A bacteria TMDL for the Middle Rio Grande was approved by the New Mexico Water Quality Control Commission on April 13, 2010, and by EPA on June 30, 2010. The Village's proposed plans for compliance with the Permit activities are described in the sections below.</p>		

<p>(a) Targeted Controls: The SWMP submitted with the first annual report must include a detailed description of all targeted controls to be implemented, such as identifying areas of focused effort or implementing additional BMPs that will be implemented to reduce the pollutant(s) of concern in the impaired waters. As required in Part I.C.2.b.(i).(e), the permittee shall include focused BMPs addressing the five areas below: <u>A. Sanitary Sewer Systems</u> (improve sanitary sewers; fix lift stations; identify and implement O&M procedures; improve violation reporting; and prevent overflows); <u>B. On-site Sewage Facilities</u> (address failing systems and inadequate maintenance of On-Site Sewage Facilities); <u>C. Illicit Discharges and Dumping</u> (effort to reduce waste sources of bacteria; for ex., septic systems, grease traps, and grit traps); <u>D. Animal Sources</u> (management programs to identify and target sources such as zoos, pet waste, and horse stables); <u>E. Residential Education</u> (bacteria from residential sites; fats, oils, and grease clogging sanitary sewer lines and resulting overflows; decorative ponds; and pet waste).</p>	<p><u>A. Sanitary Sewer Systems - Targeted Controls:</u> The Village will continue to enforce on properties that have access to public sewers but have not connected.</p> <p><u>B. On-site Sewage Facilities - Targeted Controls:</u> The Village will address this area through educational and public outreach through its involvement with the MRGSWQT.</p> <p><u>C. Illicit Discharges and Dumping - Targeted Controls:</u> The Village has an ongoing program to monitor and enforce illicit discharges. Refer to the SWMP - Illicit Discharges and Improper Disposal - for additional information.</p> <p><u>D. Animal Sources - Targeted Controls:</u> The Village will continue with public education regarding pet waste, on trail signage, animal waste collection, and its involvement with the MRGSWQT educational outreach "Scoop the Poop" campaign.</p> <p><u>E. Residential Education - Targeted Controls:</u> We will address this area through educational and public outreach through its involvement with the MRGSWQT.</p>	<p>The Village will include the MRGSWQT Outcomes Report in each Annual Report which will summarize the activities or planned activities where educational materials are distributed. The Village will address the Illicit Discharge and Dumping through its IDDE Program, refer to the SWMP - Illicit Discharges and Improper Disposal - for additional information.</p>	<p>Address targeted controls in SWMP. Progress report submitted with each Annual Report (Due Dec. 1).</p>
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<p>According to the requirements in Part I.C.2.b.(i).(f), the permittee shall monitor or assess progress in achieving measurable goals and determining the effectiveness of BMPs, and shall include documentation of this monitoring or assessment in the SWMP and annual reports. In addition, the SWMP must include methods to be used. This program element may be coordinated with the monitoring required in Part III.A. The permittee may use the following methods either individually or in conjunction to evaluate progress towards the measurable goal and improvements in water quality as follows:</p> <p>A. Evaluating Program Implementation Measures or B. Assessing Improvements in Water Quality</p> <p>Progress towards achieving the measurable goal shall be reported in the annual report. Annual reports shall report the measurable goal and the year(s) during the permit term that the MS4 conducted additional sampling or other assessment activities.</p>	<p>The Village will assess and evaluate the program and progress in achieving the measurable goals listed above by tracking the number of educational outreach opportunities conducted and tracking the number of people reached through the educational outreach program. In addition, the Village, in conjunction with the Cooperative Monitoring of the co-permittees, will conduct compliance monitoring to monitor and test for E. coli. This sampling will be done in accordance with Part III.A of the MS4 Permit and will help with a water quality assessment of the overall watershed related to E. coli. The proposed plan for this program is described in the Wet Weather Monitoring Program portion of this SWMP.</p>	<p>The Village will include the MRGSWQT Outcomes Report in each Annual Report which will track the number of educational outreach opportunities conducted and list the number of people reached through the educational outreach program. The Village will conduct stormwater monitoring in accordance with Table 10, Wet Weather Monitoring Program, Part III.A.1. The goals and plan for this program are described in the Wet Weather Monitoring Program portion of this SWMP.</p>	<p>Address monitoring and assessment of measurable goals of targeted controls in SWMP. Progress report submitted with each Annual Report (Due Dec. 1).</p>
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<p>If, by the end of the 3rd year from the effective date of the permit, the permittee observes no progress toward the measurable goal either from program implementation or water quality assessments, the permittee shall identify alternative focused BMPs that address new or increased efforts towards the measurable goal. As appropriate, the MS4 may develop a new approach to identify the most significant sources of the pollutant(s) of concern and shall develop alternative focused BMPs (this may also include information that identifies issues beyond the MS4's control). These revised BMPs must be included in the SWMP and subsequent annual reports. Where the permittee originally used a measurable goal based on an aggregated WLA, the permittee may combine or share efforts with other MS4s discharging to the same impaired stream segment to determine an alternative sub-measurable goal for the pollutant(s) of concern for their respective MS4s, as described in Part I.C.2.b.(i).(c).B above. Permittees must document the proposed schedule for the development and subsequent adoption of alternative measurable goals for the pollutant(s) of concern for their respective MS4s and associated assessment of progress in meeting those individual goals.</p>	<p>The Village will annually assess and evaluate the program and progress in achieving the measurable goals listed above. If, by the end of the 3rd year from the effective date of the MS4 Permit, we observe no progress toward the measurable goals either from program implementation or water quality assessments, we will reevaluate the program and identify alternative focused BMPs that address new or increased efforts towards the measurable goals.</p>	<p>If, by the end of the 3rd year from the effective date of the MS4 Permit, no progress toward the measurable goals either from program implementation or water quality assessments is observed, we will reevaluate the program and identify alternative focused BMPs that address new or increased efforts towards the measurable goals.</p>	<p>If required, end of the third year from the effective date of the permit.</p>
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<p>From Table 1.a, Identify potential significant sources of the pollutant of concern entering your MS4.</p>	<p>In 2014-2015, AMAFCA contracted with a consultant to restudy the bacteria within the Middle Rio Grande, specifically to evaluate the bacteria data over the recent history to report the trend analysis and the impact to the Rio Grande. The report for this study - Middle Rio Grande Rio Grande E. coli Analysis and Research report for AMAFCA by CDM-Smith.</p>	<p>AMAFCA, with its co-permittees from the 2012 MS4 Phase I Permit, have completed several studies related to identifying potential significant sources of the pollutant of concern entering the MRG Watershed MS4 area. The results of these studies will be used to guide the overall program plan and goals.</p>	<p>16 months (cooperative) from effective date of MS4 Permit</p>
<p>From Table 1.a, Develop (or modify an existing program- for prior permittees under NMS000101) and implement a public education program to reduce the discharge of bacteria in municipal stormwater contributed by (if applicable) by pets, recreational and exhibition livestock, and zoos.</p>	<p>As stated above, the Village will continue with public educations regarding pet waste, on trail signange, animal waste collection, and its involvement with the MRGSWQT educational outreach "Scoop the Poop" campaign.</p>	<p>The Village will continue membership and involvement in the cooperative MRGSWQT which will conduct educational and public outreach as well as facilitate cooperation and coordination with other MS4s in the Middle Rio Grande related to screening and notification of illicit discharges.</p>	<p>16 months from effective date of MS4 Permit</p>

<p>From Table 1.a, Review results to date from the Illicit Discharge Detection and Elimination program (see Part I.D.5.e) and modify as necessary to prioritize the detection and elimination of discharges contributing bacteria to the MS4.</p>	<p>The Village will incorporate this Permit requirement into the IDDE program, refer to the Illicit Discharges and Improper Disposal - for additional information.</p>	<p>The Village addresses this Permit activity in the IDDE Program, refer to the Illicit Discharges and Improper Disposal - for additional information.</p>	<p>18 months from effective date of MS4 Permit</p>
<p>Include in the Annual Reports progress on program implementation and reducing the bacteria and updates their measurable goals as necessary. As required in Part I.C.2.b.(i).(d), the annual report must include an analysis of how the selected BMPs have been effective in contributing to achieving the measurable goal and shall include graphic representation of pollutant trends, along with computations of annual percent reductions achieved from the baseline loads and comparisons with the target loads.</p>	<p>The Village will include the MRGSWQT Outcomes Report in each Annual Report which will track the number of educational outreach opportunities conducted, list the number of people reached through the educational outreach program, summarize the activities or planned activities related to targeting pet waste sources as well as residential education targeting bacteria sources. In addition, if strategies are developed to address IDDEs found to contribute bacteria to the MS4, these will be reported in subsequent Annual Reports. We will report annually on compliance monitoring to monitor and test for E. coli. This reporting will be done in accordance with Part III.A (Wet Weather Monitoring Program) of the MS4 Permit and will help with a water quality assessment of the overall watershed related to E. coli. Graphical representation of E. coli trends will also be completed and reported annually.</p>	<p>The Village will include the MRGSWQT Outcomes Report in each Annual Report. Strategies developed to address IDDEs found to contribute bacteria to the MS4 will be reported in subsequent Annual Reports. We will report annually on compliance monitoring to monitor and test for E. coli. This reporting will be done in accordance with Part III.A (Wet Weather Monitoring Program) of the MS4 Permit. This will include graphical representation of E. coli trends.</p>	<p>Annual Report (due Dec. 1)</p>

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL				
I.D.5.a.(ii)(a)	The permittee shall develop, revise, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.	The Village has an ordinance which meets these requirements and is attached as Exhibit A .	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(b)	Requirements for construction site operators to implement appropriate erosion and sediment control best management practices (both structural and non-structural)	These requirements are included in the ordinance and as part of the construction plan review.	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(c)	Requirements for construction site operators to control waste such as, but not limited to, discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water	These requirements are included in the ordinance and as part of the construction plan review.	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(d)	Procedures for site plan review which incorporate consideration of potential water quality impacts. The site plan review must be conducted prior to commencement of construction activities, and include a review of the site design, the planned operations at the construction site, the planned control measures during the construction phase (including the technical criteria for selection of the control measures), and the planned controls to be used to manage runoff created after the development.	The Village requires a site plan review for all construction programs that includes potential water quality impact and requires all runoff (except in the small area of the storm sewer) be held on-site. The written procedure is attached as Exhibit B	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(e)	Procedures for receipt and consideration of information submitted by the public.	Information submitted is routed to the Planning and Zoning Department for review and action.	complete	Eighteen (18) months from effective date of the permit

I.D.5.a.(ii)(f)	Procedures for site inspection (during construction) and enforcement of control measures, including provisions to ensure proper construction, operation, maintenance, and repair. The procedures must clearly define who is responsible for site inspections; who has the authority to implement enforcement procedures; and the steps utilized to identify priority sites for inspection and enforcement based on the nature of the construction activity, topography, and the characteristics of soils and the quality of the receiving water. If a construction site operator fails to comply with procedures or policies established by the permittee, the permittee may request EPA enforcement assistance. The site inspection and enforcement procedures must describe sanctions and enforcement mechanism(s) for violations	The Village has a procedure for site inspections and enforcement as defined in the Stormwater Ordinance.	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(g)	Procedures to educate and train permittee personnel involved in the planning, review, permitting, and/or approval of construction site plans, inspections and enforcement. Education and training shall also be provided for developers, construction site operators, contractors and supporting personnel, including requiring a stormwater pollution prevention plan for construction sites within the permittee's jurisdiction.	The Village has a process for training permittee personnel that includes both in house and outside training. Records are kept of all training provided.	complete	Eighteen (18) months from effective date of the permit
I.D.5.a.(ii)(h)	Procedures for keeping records of and tracking all regulated construction activities within the MS4, i.e. site reviews, inspections, inspection reports, warning letters and other enforcement documents. Summary of the number and frequency of site reviews, inspections (including inspector's checklist for oversight of sediment and erosion controls and proper disposal of construction wastes) and enforcement activities that are conducted annually and cumulatively during the permit term shall be included in each annual report.	The Village has a established a recordkeeping system in compliance with the permit requirements.	complete	Eighteen (18) months from effective date of the permit

I.D.5.a.(iii)	Annually conduct site inspections of 100 percent of all construction projects cumulatively disturbing one (1) or more acres within the MS4 jurisdiction. Site inspections are to be followed by any necessary compliance or enforcement action. Follow-up inspections are to be conducted to ensure corrective maintenance has occurred; and, all projects must be inspected at completion for confirmation of final stabilization.	The Village has begun inspecting 100 percent of all construction projects cumulatively disturbing one (1) or more acres within the MS4 jurisdiction.	complete	Start 2 years from the effective date of the permit and thereafter
I.D.5.a.(iv)	The permittee must coordinate with all departments and boards with jurisdiction over the planning, review, permitting, or approval of public and private construction projects/activities within the permit area to ensure that the construction stormwater runoff controls eliminate erosion and maintain sediment on site.	In the Village, a single department is responsible for planning, review, permitting, or approval of public and private construction projects. The department has 3 employees that are continually coordinating.	Continue to involve all staff in understanding and implementing the objectives of the Watershed Stormwater Permit.	Fourteen (14) months from effective date of the permit
I.D.5.a.(v)	The site plan review required in Part I.D.5.a.(ii)(d) must include an evaluation of opportunities for use of GI/LID/Sustainable practices and when the opportunity exists, encourage project proponents to incorporate such practices into the site design to mimic the pre-development hydrology of the previously undeveloped site. For purposes of this permit, pre-development hydrology shall be met according to Part I.D.5.b of this permit. (Consistent with any limitations on that capture.) Include a reporting requirement of the number of plans that had opportunities to implement these practices and how many incorporated these practices	The Village has, by necessity, utilized GI/LID Sustainable practices since it's inception. Having no storm collection system until 2007, all stormwater has historically, and by code, been retained on the property upon which it falls.	Continue the policy of requiring containment of runoff from any property not served by the 3,600 ft. storm sewer in the Village Center area.	Fourteen (14) months from effective date of the permit
I.D.5.a.(ix)	The permittee may develop or update existing construction handbooks (e.g., the COA NPDES Stormwater Management Guidelines for Construction and Industrial Activities Handbook) to be consistent with promulgated construction and development effluent limitation guidelines.	The Village will work with the other co-permittees to update the NPDES Manual.		Update as needed

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
POST-CONSTRUCTION STORMWATER MANAGEMENT				
I.D.5.b.(ii)(a)	Strategies which include a combination of structural and/or non-structural best management practices (BMPs) to control pollutants in stormwater runoff.	The Village utilizes traditional BMPs for the valley area as well as newer non traditional BMPs brought forward by the development community. Also, through the TAG, the village has access to the "National Pollutant Discharge Elimination System Manual" prepared by the former Phase 1 permittees which shows a variety of BMPs.	Post-construction runoff compliance as monitored by inspections.	Fourteen (14) months from effective date of the permit
I.D.5.b.(ii)(b)	An ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State, Tribal or local law.	The Village has an ordinance which prohibits the discharge of nuisance water from any property in the village.	Post-construction runoff compliance as monitored by inspections.	Thirty six (36) months from effective date of the permit
I.D.5.b.(ii)(c)	The permittee must ensure the appropriate implementation of the structural BMPs by considering some or all of the following: pre-construction review of BMP designs; inspections during construction to verify BMPs are built as designed; post-construction inspection and maintenance of BMPs; and penalty provisions for the noncompliance with preconstruction BMP design; failure to construct BMPs in accordance with the agreed upon pre-construction design; and ineffective post-construction operation and maintenance of BMPs.	The Village has a review process where any covered construction project submits a Grading and Drainage plan which is reviewed by an independent Village retained engineer. Followed by inspection to insure compliance with the engineered plans.	Post-construction runoff compliance as monitored by inspections.	Forty eight (48) months from effective date of the permit
I.D.5.b.(ii)(d)	The permittee must ensure that the post-construction program requirements are constantly reviewed and revised as appropriate to incorporate improvements in control techniques.	The Village will continually review the post construction program.	Post-construction runoff compliance as monitored by inspections.	Thirty (30) months from effective date of the permit

I.D.5.b.(ii)(e)	<p>Procedure to develop and implement an educational program for project developers regarding designs to control water quality effects from stormwater, and a training program for plan review staff regarding stormwater standards, site design techniques and controls, including training regarding GI/LID/Sustainability practices. Training may be developed independently or obtained from outside resources, i.e. federal, state, or local experts.</p>	<p>With the very small number of developers/contractors who fall into this category, training is delivered in a one on one basis specific to the project. Training for staff includes programs available online or from other co-permittees.</p>	<p>The Village will work with the TAG to improve our knowledge of techniques and methods as well as outside sources as appropriate</p>	<p>Eighteen (18) months from effective date of the permit</p>
I.D.5.b.(ii) (f)	<p>Procedures for site inspection and enforcement to ensure proper long-term operation, maintenance, and repair of stormwater management practices that are put into place as part of construction projects/activities. Procedure(s) shall include the requirement that as-built plans be submitted within ninety (90) days of completion of construction projects/activities that include controls designed to manage the stormwater associated with the completed site (post-construction stormwater management). Procedure(s) may include the use of dedicated funds or escrow accounts for development projects or the adoption by the permittee of all privately owned control measures. This may also include the development of maintenance contracts between the owner of the control measure and the permittee. The maintenance contract shall include verification of maintenance practices by the owner, allows the MS4 owner/operator to inspect the maintenance practices, and perform maintenance if inspections indicate neglect by the owner.</p>	<p>The Planning & Zoning Director performs all inspections and enforcement of stormwater BMPs at this point (3 last year). The typical BMPs are ponds and infiltration systems that require minimal maintenance.</p>	<p>Due to the size and scope of projects in the Village we do not require as-built drawings. All projects requiring the installation of BMPs are inspected at the time of completion and will be inspected annually for a period of time to satisfy the BMPs are working appropriately.</p>	<p>Eighteen (18) months from effective date of the permit</p>

I.D.5.b.(ii)(g)	<p>Procedures to control the discharge of pollutants related to commercial application and distribution of pesticides, herbicides, and fertilizers where permittee(s) hold jurisdiction over lands not directly owned by that entity (e.g., incorporated city). The procedures must ensure that herbicides and pesticides applicators doing business within the permittee's jurisdiction have been properly trained and certified, are encouraged to use the least toxic products, and control use and application rates according to the applicable requirements.</p>	<p>Commercial application of pesticides is regulated by the New Mexico Department of Agriculture (NMDA). NMDA has authority over the distribution and use of all pesticides in the state. NMDA establishes certification requirements for pesticide applicators including a requirement for continuing education. Additionally, under the Clean Water Act, pesticide applications to, over, or near water generally require a NPDES permit issued by the EPA.</p>		<p>Eighteen (18) months from effective date of the permit</p>
I.D.5.b.(ii)(h)	<p>Procedure or system to review and update, as necessary, the existing program to ensure that stormwater controls or management practices for new development and redevelopment projects/activities continue to meet the requirements and objectives of the permit.</p>	<p>The Village will continually review the post construction program.</p>		<p>Eighteen (18) months from effective date of the permit</p>

I.D.5.b.(iii)	<p>The permittee must coordinate with all departments and boards with jurisdiction over the planning, review, permitting, or approval of public and private new development and redevelopment projects/activities within the permit area to ensure the hydrology associated with new development and redevelopment sites mimic to the extent practicable the pre-development hydrology of the previously undeveloped site, except in instances where the pre-development hydrology requirement conflicts with applicable water rights appropriation requirements. For purposes of this permit, pre-development hydrology shall be met by capturing the 90th percentile storm event runoff (consistent with any limitations on that capture) which under undeveloped natural conditions would be expected to infiltrate or evapotranspire on-site and result in little, if any, off-site runoff. (Note: This permit does not prevent permittees from requiring additional controls for flood control purposes.) Planning documents include, but are not limited to: comprehensive or master plans, subdivision ordinances, general land use plan, zoning code, transportation master plan, specific area plans, such as sector plan, site area plans, corridor plans, or unified development ordinances.</p>	<p>In the Village, a single department is responsible for planning, review, permitting, or approval of public and private construction projects. The department has 3 employees that are continually coordinating.</p>	<p>Continue to involve all staff in understanding and implementing the objectives of the Watershed Stormwater Permit.</p>	<p>One (1) year from effective date of the permit</p>
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I.D.5.b.(iv)	<p>The permittee must assess all existing codes, ordinances, planning documents and other applicable regulations, for impediments to the use of GI/LID/Sustainable practices. The assessment shall include a list of the identified impediments, necessary regulation changes, and recommendations and proposed schedules to incorporate policies and standards to relevant documents and procedures to maximize infiltration, recharge, water harvesting, habitat improvement, and hydrological management of stormwater runoff as allowed under the applicable water rights appropriation requirements. The permittee must develop a report of the assessment findings, which is to be used to provide information to the permittee, of the regulation changes necessary to remove impediments and allow implementation of these practices.</p>	<p>The Village has, by necessity, utilized GI/LID Sustainable practices since it's inception. Having no storm collection system until 2007, all stormwater has historically, and by code, been retained on the property upon which it falls.</p>	<p>Continue the policy of requiring containment of runoff from any property not served by the 3,600 ft. storm sewer in the Village Center area.</p>	<p>Two (2) year from effective date of the permit</p>
I.D.5.b.(v)	<p>As required in Part I.D.5.b.(iv), develop and submit a report of the assessment findings on GI/LID/Sustainable practices.</p>	<p>The Village will prepare a report of the assessment findings on GI/LID/Sustainable practices.</p>	<p>Completion of the Report</p>	<p>Twenty seven (27) months from effective date of the permit</p>
I.D.5.b.(vi)	<p>The permittee must estimate the number of acres of impervious area (IA) and directly connected impervious area (DCIA). For the purpose of his part, IA includes conventional pavements, sidewalks, driveways, roadways, parking lots, and rooftops. DCIA is the portion of IA with a direct hydraulic connection to the permittee's MS4 or a waterbody via continuous paved surfaces, gutters, pipes, and other impervious features. DCIA typically does not include isolated impervious areas with an indirect hydraulic connection to the MS4 (e.g., swale or detention basin) or that otherwise drain to a pervious area.</p>	<p>The Village is working to estimate the acres of impervious area (IA) and directly connected impervious area (DCIA).</p>	<p>Completion of the estimate</p>	<p>Thirty (30) months from effective date of the permit</p>

I.D.5.b.(vii)	Inventory and priority ranking of MS4 owned property that may be retrofitted as required in section in Part I.D.5.b.(vii)	The Village will inventory and assess property that may be retrofitted to reduce the potential of stormwater pollution.	Completion of the Report	Forty two (42) months from effective date of the permit
I.D.5.b.(viii)	The permittee must incorporate watershed protection elements into relevant policy and/or planning documents as they come up for regular review. If a relevant planning document is not scheduled for review during the term of this permit, the permittee must identify the elements that cannot be implemented until that document is revised, and provide to EPA and NMED a schedule for incorporation and implementation not to exceed five years from the effective date of this permit.	The Village will inventory and assess property that may be retrofitted to reduce the potential of stormwater pollution.		Thirty (30) months from effective date of the permit

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
POLLUTION PREVENTION / GOOD HOUSEKEEPING				
I.D.5.c.(i)	The permittee must develop, revise and implement an operation and maintenance program that includes a training component and the ultimate goal of preventing or reducing pollutant runoff from municipal operations.	The Village will continue to implement an operations and maintenance program which includes a training component	Training Records for maintenance staff.	Eighteen (18) months from effective date of the permit
I.D.5.c.(i)(a)	Development and implementation of an employee training program to incorporate pollution prevention and good housekeeping techniques into everyday operations and maintenance activities. The employee training program must be designed to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance. The permittee must also develop a tracking procedure and ensure that employee turnover is considered when determining frequency of training.	The Village will continue to implement an employee training program	Training Records for maintenance staff.	Eighteen (18) months from effective date of the permit
I.D.5.c.(i)(b)	Maintenance activities, maintenance schedules, and long term inspections procedures for structural and non-structural storm water controls to reduce floatable, trash, and other pollutants discharged from the MS4.	The Village will develop maintenance schedules for the stormwater controls to reduce floatable, trash, and ther pollutants	All flows from the Village storm sewer flow through a "stormceptor" Designed to remove floatables and sediment.	Eighteen (18) months from effective date of the permit

I.D.5.c.(i)(c)	Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, fleet or maintenance shops with outdoor storage areas, salt/sand storage locations, snow disposal areas operated by the permittee, and waste transfer stations;	The Village does not discharge runoff from any of their facilities, roads have no curbs (except 3,600 feet of Fourth St.) and due to our location, do not have any snow/ice removal processes, nor do we have waste removal facilities..		Eighteen (18) months from effective date of the permit
I.D.5.c.(i)(d)	Procedures for properly disposing of waste removed from the separate storm sewers and areas listed in art I.D.5.c.(i).(c) (such as dredge spoil, accumulated sediments, floatables, and other debris); and	The Village has developed procedures for the waste removed from Storm Sewer and areas listed in I.D.5.c.(i).(c)	Written Procedures	Eighteen (18) months from effective date of the permit
I.D.5.c.(ii)	The Pollution Prevention/Good Housekeeping program must include the elements from I.D.5.c.(ii)(a) through I.D.5.c.(ii)(n).	The Pollution Prevention/Good Housekeeping program will include the elements from I.D.5.c.(ii)(a) through I.D.5.c.(ii)(n) as appropriate.	A program assessment of the elements included in I.D.5.c.(ii)(a) through I.D.5.c.(ii)(n)	Thirty (30) months from effective date of the permit
I.D.5.c.(iii)	Comply with the requirements included in the EPA Multi Sector General Permit (MSGP) to control runoff from industrial facilities (as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi)) owned or operated by the permittees and ultimately discharge to the MS4.	The Village does not own any industrial type facilities. Properties owned are for office or storage.		Eighteen (18) months from effective date of the permit

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
ILLICIT DISCHARGES				
I.D.5.e.(i)(a)	Develop, if not already completed, a storm sewer system map, showing the names and locations of all outfalls as well as the names and locations of all waters of the United States that receive discharges from those outfalls. Identify all discharge points into major drainage channels draining more than twenty (20) percent of the MS4 area.	Map is developed and is attached as Exhibit C.	Creation of Map	Fourteen (14) months from effective date of the permit
I.D.5.e.(i)(b)	Ordinance (or other control method) as required in Part I.D.5.e.(i)(b)	The Villages current Ordinance includes language to prohibit illegal discharges but will be reviewed for possible strengthening.	Revised ordinance	Thirty (30) months from effective date of the permit
I.D.5.e.(i)(c)	Develop and implement a plan to detect and address non-stormwater discharges, including illegal dumping, to the MS4.	The Village has a program of regular street sweeping where inlets are inspected for illegal discharges, the program will be reviewed for possible expansion/improvements.	Complete written Plan	Thirty (30) months from effective date of the permit
I.D.5.e.(i)(d)	Develop an education program as required in Part I.D.5.e.(i)(d)	Work with the Middle Rio-Grande Stormwater Quality Team to provide education regarding illegal discharges	Effective Educational program as documented in an Outcomes Report as shown in Exhibit D.	Eighteen (18) months from effective date of the permit
I.D.5.e.(i)(e)	Establish a hotline to address complaints from the public	The Village has a single phone number which serve as a hotline for all complaints.	Complete	Eighteen (18) months from effective date of the permit

I.D.5.e.(i)(f)	Investigate suspected significant/severe illicit discharges within forty-eight (48) hours of detection and all other discharges as soon as practicable; elimination of such discharges as expeditiously as possible; and, requirement of immediate cessation of illicit discharges upon confirmation of responsible parties.	The Village has a procedure for investigating any identified illicit discharges.	Procedures were used to identify and halt illegal discharge of food truck cooking oil/grease.	Eighteen (18) months from effective date of the permit
I.D.5.e.(i)(g)	Review complaint records for the last permit term and develop a targeted source reduction program for those illicit discharge/improper disposal incidents that have occurred more than twice in two (2) or more years from different locations. (Applicable only to class A and B permittees)	The Village will review complaint records for the last permit term.	During the past three years only 1 complaint has been received and was coordinated with the MRGCD.	One (1) year from effective date of the permit
I.D.5.e.(iii)	The permittee must screen the entire jurisdiction at least once every five (5) years and high priority areas at least once every year. High priority areas include any area where there is ongoing evidence of illicit discharges or dumping, or where there are citizen complaints on more than five (5) separate events within twelve (12) months.	The Village screens the Fourth St. Corridor (the commercial district) twice monthly during street sweeping. This is the only area where stormwater discharges are collected and discharged.	Continue with a more documented screening process to meet the 3, 4, and 5 year requirements	Years 1 – 3: develop procedures as require in Part I.D.5.e.(i)(c) Year 4: screen 30% of the MS4 Year 5: screen 70% of the MS4
I.D.5.e.(iv)	Waste Collection Programs: The permittee must develop, update, and implement programs to collect used motor vehicle fluids (at a minimum, oil and antifreeze) for recycle, reuse, or proper disposal, and to collect household hazardous waste materials (including paint, solvents, fertilizers, pesticides, herbicides, and other hazardous materials) for recycle, reuse, or proper disposal. Where available, collection programs operated by third parties may be a component of the programs.	In coordination with the co-permittees the Village will develop, update, and implement programs to collect various waste products.	Programs are in place for collecting solid waste, auto fluids, hazardous wastes and FOG.	Thirty (30) months from effective date of the permit
I.D.5.e.(v)	Spill Prevention and Response. The permittee must develop, update and implement a program to prevent, contain, and respond to spills that may discharge into the MS4. The permittees must continue existing programs while updating those programs, as necessary, to comply with the requirements of this permit.	The Village, in conjunction with the Bernalillo County Fire Department, have a program to prevent, contain, and respond to spills.	Spill response records.	Eighteen (18) months from effective date of the permit

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
CONTROL OF FLOATABLES				
I.D.5.f.(i)(a)	Develop a schedule for implementation of the program to control floatables in discharges into the MS4.	Floatables are controlled from entering the Village storm sewers by regular street sweeping. Any floatables entering the system are removed in the "stormceptor" prior to discharge.	Volume of floatables removed from the stormceptor. In the past this has been 0 due to our aggressive cleaning schedule.	Eighteen (18) months from effective date of the permit
I.D.5.f.(i)(b)	Estimate the annual volume of floatables and trash removed from each control facility and characterize the floatable type.	see above	see above	Thirty (30) months from effective date of the permit

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
PUBLIC EDUCATION AND OUTREACH				
I.D.5.g.(i)	<p>The permittee shall, individually or cooperatively, develop, revise, implement, and maintain a comprehensive stormwater program to educate the community, employees, businesses, and the general public of hazards associated with the illegal discharges and improper disposal of waste and about the impact that stormwater discharges on local waterways, as well as the steps that the public can take to reduce pollutants in stormwater.</p>	<p>The Village of Los Ranchos participates both financially and through participation in the Middle Rio Grand Storm Water Quality Team. This joint effort was initially conceived by the Phase 1 permittees (COA, UNM, NMDOT, and AMAFCA) as a means of combining resource and approach to delivering public education in overlapping jurisdictions. With the initiation of the "Watershed Based Permit" the group opened the membership to other co-permittees and the Village became an active member.</p>	<p>Through the MRGSWQT many educational programs are underway as illustrated in the Outcomes Report attached in Exhibit D.</p>	<p>Fourteen (14) months from effective date of the permit</p>

Permit Reference	Permit Activity Description	Proposed Plan	Measureable Goal	Permit Required Implementation Schedule
PUBLIC INVOLVEMENT				
I.D.5.h.(ii)	The permittee shall develop, revise, implement and maintain a plan to encourage public involvement and provide opportunities for participation in the review, modification and implementation of the SWMP; develop and implement a process by which public comments to the plan are received and reviewed by the person(s) responsible for the SWMP; and, make the SWMP available to the public and to the operator of any MS4 or Tribal authority receiving discharges from the MS4.	The Village has developed a plan to encourage public involvement and a process for requesting and receiving public comments for the SWMP development.	Written plan	One (1) year from effective date of the permit
I.D.5.h.(iii)	The plan required in Part I.D.5.h.(ii) shall include a comprehensive planning process which involves public participation and where necessary intergovernmental coordination, to reduce the discharge of pollutants to the maximum extent practicable using management practices, control techniques and system, design and engineering methods, and such other provisions which are appropriate.	The Village has developed a plan to encourage public involvement and a process for requesting and receiving public comments for the SWMP development.	Written plan	One (1) year from effective date of the permit
I.D.5.h.(iv)	The permittee shall comply with State, Tribal and local public notice requirements when implementing a public involvement/ participation program.	The Village has and will continue to comply with state and local public notice requirements.	Public Notices	Fourteen (14) months from effective date of the permit

I.D.5.h.(v)	The public participation process must reach out to all economic and ethnic groups. Opportunities for members of the public to participate in program development and implementation include serving as citizen representatives on a local stormwater management panel, attending public hearings, working as citizen volunteers to educate other individuals about the program, assisting in program coordination with other preexisting programs, or participating in volunteer monitoring efforts.	The Villages public participation process includes all economic and ethnic groups, and is centered in the delivery of information and receiving comments at existing Public Meeting situations.	Stormwater reporting in Board of Trustee and Planning and Zoning Commission meetings.	Eighteen (18) months from effective date of the permit
I.D.5.h.(vii)	The permittee shall assess the overall success of the program, and document the program effectiveness in the annual report.	The Village will assess the overall success of the program, and document the program effectiveness in the annual report, as the EPA form allows.	Annual report assessment	
I.D.5.h.(ix)	The permittee may integrate the public Involvement and participation program with existing education and outreach programs in the Middle Rio Grande area. Example of existing programs include: Adopt-A-Stream Programs; Attitude Surveys; Community Hotlines (e.g. establishment of a “311”-type number and system established to handle storm-water-related concerns, setting up a public tracking/reporting system, using phones and social media); Revegetation Programs; Storm Drain Stenciling Programs; Stream cleanup and Monitoring program/events.	As discussed under Public Education, working with the MRGSWQT the Village accesses the resources of several local groups including RiverXchange, Bosque Environmental Monitoring Program (BEMP), and other organizations to draw on their expertise and constituents.		

EXHIBIT A

STORMWATER MANAGEMENT ORDINANCE

ARTICLE 3. STORMWATER MANAGEMENT

SECTION 1.	Definitions
SECTION 2.	General Regulations
SECTION 3.	Illicit Discharge
SECTION 4.	Stormwater Discharge
SECTION 5.	Administration
SECTION 6.	Inspections
SECTION 7.	Violations, Noncompliance, Penalty
SECTION 8.	Additional Permits
SECTION 9.	Appeals
SECTION 10.	Severability

§ 4.3.1 DEFINITIONS

BEST MANAGEMENT PRACTICES (BMPs) means activities or structural improvements that help reduce the quantity and improve the quality of stormwater runoff. Best management practices are schedules of activities, prohibitions or practices, maintenance procedures and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures and practices to control runoff, spillage, or leaks; sludge, waste disposal, or drainage from raw material storage. With regard to construction, these practices may include structural devices or nonstructural practices that are designed to prevent pollutants from entering water or to direct the flow of water.

CLEAN WATER ACT (WATER QUALITY ACT): (formerly the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972). Public law 92-500; 33 U.S.C. 1251 et. seq.; legislation which provides statutory authority for the NPDES program. Also known as the Federal Water Pollution Control Act.

COMPREHENSIVE PLAN means the Village of Los Ranchos Comprehensive Plan and amendments thereto.

CONCEPTUAL GRADING AND DRAINAGE PLAN means a plan prepared in graphical format showing existing and proposed grading, drainage, control, flood control and erosion control information in sufficient detail to determine project feasibility.

CONVEYANCE means the process of water moving from one place to another.

DIRECTOR means The Director of Planning and Zoning, the official designated to enforce the comprehensive zoning ordinance, as may be amended from time to time.

DISCHARGE means the volume of water (and suspended sediment if surface water) that passes a given location within a given period of time.

DESIGN STORM means a storm which deposits a stated amount of precipitation within a stated period over a defined area and which is used in calculating storm runoff and in designing drainage control, flood control and erosion control measures.

DEVELOPED LAND means any lot or parcel of land occupied by any structure intended for human occupation, including structures intended for commercial enterprise.

DEVELOPER means any individual, estate, trust, receiver, cooperative association, club, corporation, company, firm, partnership, joint venture, syndicate, or other entity



engaging in the platting, subdivision, filling, grading, excavation, or construction of structures or facilities.

DRAINAGE means storm drainage.

DRAINAGE MANAGEMENT OR TREATMENT means the treatment and/or management of surface runoff from all storms up to and including a ten-year design storm.

DRAINAGE PLAN means a short, detailed plan prepared in graphical format with or on a detailed grading plan addressing onsite and off-site drainage control, flood control, and erosion control issues for lots or parcels of less than five acres.

DRAINAGE REPORT means a comprehensive analysis of the drainage, flood control, and erosion control constraints on and impact resulting from a proposed platting, development or construction project.

EPA means United States Environmental Protection Agency.

EROSION CONTROL means treatment measures for the prevention of damages due to soil movement and to deposition.

EROSION CONTROL PLAN means a plan for the mitigation of damages due to soil erosion and to deposition.

EXCAVATION means the process of removing earth, stone, or other materials from land.

FLOOD CONTROL means the treatment measures necessary to protect life and property from the 100-year design storm runoff.

FLOOD HAZARD AREA means an area subject to inundation from the 100-year design storm runoff.

GENERAL PERMIT means a permit issued under the NPDES program to cover a certain class or category of stormwater discharges. These permits reduce the administrative burden of permitting stormwater discharges.

GRADING means the cutting and/or filling of the land surface to a desired slope or elevation.

GRADING PLAN means a plan describing the existing topography and proposed grading, including retaining wall locations and details, interfaces with adjacent properties, streets, alleys and channels, referenced to mean sea level (1929 or 1988 datum) such as city benchmark or NMDOT benchmark, and showing sufficient contours, spot elevations and cross sections to allow a clear understanding by reviewers, contractors, and inspectors.

ILLICIT CONNECTION means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater and is not authorized by an NPDES permit, with some exceptions (e.g., discharges due to fire fighting activities).

MAINTENANCE means the cleaning, shaping, grading, repair and minor replacement of drainage, flood control and erosion control facilities, but not including the cost of power consumed in the normal operation of pump stations.

MAXIMUM EXTENT PRACTICABLE (MEP) means a standard for water quality that applies to all MS4 operators regulated under the NPDES Stormwater Program. Since no precise definition of MEP exists, it allows for maximum flexibility on the part of MS4 operators as they develop and implement their programs.



MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) means a publicly owned conveyance or system of conveyances that discharges to waters of the U.S. and is designed or used for collecting or conveying stormwater, is not a combined sewer, and is not part of a publicly-owned treatment works (POTW).

NON-POINT SOURCE (NPS) POLLUTANTS means pollutants from many diffuse sources. NPS pollution is caused by rainfall or snowfall moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters, and even our underground sources of drinking water.

NOTICE OF INTENT(NOI) means Notice of Intent.

NPDES: “National Pollutant Discharge Elimination System” the name of the surface water quality program authorized by Congress as part of the 1987 Clean Water Act. This is EPA’s program to control the discharge of pollutants to waters of the United States (see 40 C.F.R. 122.2) Phase II.

NUISANCE WATERS means those waters leaving a site and entering a public right of way.

ONE HUNDRED (100) YEAR DESIGN STORM means that storm whose precipitation within a six-hour period and resulting runoff has a one percent chance of being equaled or exceeded in any given year. A special condition may require/allow use of storms of longer duration.

OUTFALL means the point where wastewater or drainage discharges from a sewer pipe, ditch, or other conveyance to a receiving body of water.

PHYSICALLY INTERCONNECTED MS4 means that one MS4 is connected to a second MS4 in such a way that it allows for direct discharges into the second system.

POINT SOURCE POLLUTANT means pollutants from a single, identifiable source such as a factory or refinery.

POLLUTANT LOADING means the total quantity of pollutants in stormwater runoff.

REGULATED MS4 means any MS4 covered by the NPDES Stormwater Program (regulated small, medium, or large MS4s).

RETROFIT means the modification of stormwater management systems through the construction and/or enhancement of wet ponds, wetland plantings, or other BMPs designed to improve water quality.

RUNOFF means drainage or flood discharge that leaves an area as surface flow or as pipeline flow. Has reached a channel or pipeline by either surface or sub-surface routes.

SEDIMENT means soil, sand, and minerals washed from land into water, usually after rain. Sediment can destroy fish-nesting areas, clog animal habitats, and cloud waters so that sunlight does not reach aquatic plants.

SITE RUNOFF means any drainage or flood discharge that is released from a specified area.

SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM(MS4) means any MS4 that is not regulated under Phase I of the NPDES Stormwater Program and Federally-owned MS4s.

STORM DRAIN means a slotted opening leading to an underground pipe or an open ditch for carrying surface runoff.



STORM DRAINAGE SYSTEM means arroyos, storm drains, roadways, culverts, bar ditches, ponds, pump stations, dams, detention ponds, retention ponds, inlets, and appurtenant structures and other facilities which convey stormwater.

STORMWATER means precipitation that accumulates in natural and/or constructed storage and stormwater systems during and immediately following a storm event.

STORMWATER MANAGEMENT means functions associated with planning, designing, constructing, maintaining, financing, and regulating the facilities (both constructed and natural) that collect, store, control, and/or convey stormwater.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) means a plan to describe a process whereby a facility thoroughly evaluates potential pollutant sources at a site and selects and implements appropriate measures designed to prevent or control the discharge of pollutants in stormwater runoff.

STORMWATER QUALITY CONTROL means the treatment methods necessary to protect and enhance the quality of stormwater.

SURFACE WATER means water that remains on the surface of the ground, including rivers, lakes, reservoirs, streams, wetlands, impoundments, seas, estuaries, etc.

TEN-YEAR DESIGN STORM means that storm whose precipitation within a six hour period and resulting runoff has a ten percent chance of being equaled or exceeded in any given year. A special condition may require/allow use of storms of longer duration.

TOTAL MAXIMUM DAILY LOAD (TMDL) means the maximum amount of pollutants which can be released into a water body without adversely affecting the water quality.

URBAN RUNOFF means stormwater from urban areas, which tends to contain heavy concentrations of pollutants from urban activities.

WET WEATHER FLOWS means water entering storm drains during rainstorms/wet weather events.

§ 4.3.2 GENERAL REGULATIONS

The Village shall, under direction of the Director of Planning and Zoning, develop, implement, and enforce, according to EPA standards, a Stormwater Management Plan designed to reduce the discharge of pollutants from a small MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy applicable surface water quality standards.

(A) STORM DRAINAGE.

- (1) Prevent the creation of public safety hazards and seek to eliminate existing problems.
- (2) Prevent, to the extent feasible, the discharge of storm runoff from public facilities onto private property.
- (3) Prevent the increased risk of damage to private property caused by storm runoff from other private property.
- (4) Coordinate with the M.R.G.C.D., A.M.A.F.C.A., Bernalillo County and the City of Albuquerque the discharge of storm runoff into M.R.G.C.D. and A.M.A.F.C.A facilities and minimize impact on downstream facilities.
- (5) Provide for timely and effective construction and maintenance of storm drainage facilities.



(6) Design storm drainage facilities, which provided effective storm drainage and flood control.

(7) Improve the quality of storm runoff.

(B) EROSION CONTROL.

(1) Protect the hydraulic capacity of flood control and storm drainage facilities from losses due to sedimentation and degradation.

(2) Preserve public health, safety, and convenience from jeopardy due to erosion and sedimentation in private and public facilities of all types.

(3) Preserve the quality of surface runoff.

§ 4.3.3 ILLICIT DISCHARGE

(A) NON-STORMWATER DISCHARGE. It is prohibited to discharge into the storm sewer system any form of pollutant, including but not limited to:

(1) Automotive oils, gasoline, grease, fluids, or other waste products;

(2) Floatables – such as plastic bags, fast food wrappers, Styrofoam cups, soft drink cans, or cups, etc.;

(3) Plant refuse – weeds, tree trimmings, leaves, etc.;

(4) Water line flushing;

(5) Landscape irrigation or sprinkler run off;

(6) Fertilizers, pesticides, or poisons;

(7) Diverted stream or ditch flows;

(8) Uncontaminated pumped groundwater;

(9) Discharges from potable water sources;

(10) Foundation drains;

(11) Open space or agricultural irrigation water;

(12) Car washing between Mullen and Schulte on 4th Street or where water flows into storm sewer outlets;

(13) Flows from riparian habitats and wetlands;

(14) De-chlorinated swimming pool discharges;

(15) Toxic spills;

(16) Street wash water;

(17) Animal waste;

(18) Grease from cooking, commercial and residential;

(19) Household cleaning products.

(B) ILLEGAL DUMPING. It is prohibited for any person or persons to deposit trash, household items, yard debris, appliances, or any such items on Village of Los Ranchos owned or controlled property.

(1) All possible investigative means may be utilized to determine the person or persons responsible for illegal dumping.

(C) GROUNDWATER CONTAMINATION. Any activity which contributes to groundwater contamination through the burying of animal waste, dead animals, and garbage or toxic chemicals is expressly prohibited.

(1) All possible investigative means may be utilized to determine the person or persons responsible for groundwater contamination.



§ 4.3.4 STORMWATER DISCHARGE

(A) NEW CONSTRUCTION.

(1) All construction, development, and redevelopment projects with land disturbances equal to or greater than one acre, including sites, which disturb less than one acre, but are part of a larger common plan of development, must, at the time of application to the Village, submit:

(a) A Notice of Intent permit issued by EPA.

(b) A Stormwater Pollution Prevention Plan (SWPPP) including Best Management Practices to prevent stormwater discharge in accordance with EPA NPDES Phase II regulations for construction site stormwater runoff control.

(2) The stormwater pollution prevention plan shall outline the BMPs to be undertaken by the operator/owner of the project to protect stormwater quality during the construction phase of the project.

(a) These BMPs shall be maintained by the owner of the property. Inspection of these BMPs shall be made at a minimum once a week by the owner and a log of this inspection shall be kept on-site for review by the Village. The Village shall also inspect these BMPs on a periodic basis. These BMPs shall be subject to the approval of the Planning and Zoning Department.

(3) Construction and development sites must control and properly dispose of construction wastes, trash, chemicals, etc.

(B) POST CONSTRUCTION.

(1) All development and redevelopment projects with land disturbances equal to or greater than one acre, including sites which disturb less than one acre but are part of a larger common plan of development and all construction of additions to buildings or of outbuildings over fifty percent (50%) of existing Floor Area Ratio, must submit a Grading and Drainage Plan with a Certified Engineer's stamp showing on-site water retention ponding volumes.

(2) For all development and redevelopment projects with land disturbances equal to or greater than one acre, including sites which disturb less than one acre but are part of a larger common plan of development, and all construction of additions to buildings or of outbuildings over fifty percent (50%) of existing Floor Area Ratio within the Village, post construction water quality BMPs are required. This requirement is in addition to any other requirements that may apply. These BMPs shall be subject to the approval of the Planning and Zoning Department.

(3) Contractors or developers must complete the on-site water retention ponding, berming, banking, ditching, or underground retention system prior to receipt of Certificate of Occupancy or in case of subdivision, sales of lots to the public.

(4) Maintenance responsibility of stormwater control is the responsibility of the property owner up to the point where stormwater enters public facilities.

(5) Where a site development, building permit, a major or minor subdivision, or a replat alters the elevation or location of any designated 100-year floodplain, as shown on current FEMA flood insurance rate maps, the developer shall be required to provide to the Village all necessary data needed to effect the flood boundary revision or amendment. Any required fees for processing shall be the responsibility of the developer.



(6) Site development and major or minor subdivisions or replats shall be designed and constructed such that non-stormwater discharges into storm sewers, ditches, or watercourses will not occur.

(C) STORMWATER DISCHARGE FROM INDIVIDUAL PARCELS.

(1) The discharge of nuisance waters from private property to public streets is prohibited. Arterial and collector streets shall be protected from damages to the surface and from the safety hazard created by surface flow of nuisance waters across them.

(a) Parking lots, yards, open fields, landscaped areas, developed and undeveloped lots shall be bermed, banked, ponded, ditched, or otherwise contoured for on-site water retention to prevent stormwater runoff onto Village streets and roads or ditches.

§ 4.3.5 ADMINISTRATION

(A) The design, construction, and maintenance of all drainage control, flood control, erosion control, and stormwater quality control facilities within the Village shall be performed in accordance with procedures, criteria and standards formulated by the Director of Planning and Zoning and in accordance with the policies established in this Article.

(B) All construction activities within the jurisdiction of the Village shall conform to the requirements of the Article with respect to drainage control, flood control, erosion control and stormwater quality control.

(1) Construction, grading or paving on any lot within the Village shall not increase the damage potential to adjacent properties or public facilities. Damages shall be defined as those caused by flooding, erosion, and sedimentation from the 100-year design storm and all smaller storms.

(2) Any grading shall provide for erosion control and the safe passages of the ten-year design storm runoff during the construction phase and until the permanent improvements are completed.

(3) Grading, cut, fill or importation of material in excess of 500 cubic yards or grading of any area of one acre or more, or any grading which will adversely affect other properties, ditches, watercourses or easements shall conform to drainage control, flood control, erosion control and stormwater quality control policies and to standards, criteria and procedures established by the Village with respect to drainage, flood control, erosion control, and stormwater quality control.

(C) The Village may participate with the private sector, other public bodies, and agencies operating within the jurisdiction of this Article in order to accomplish the goals and implement the policies adopted herein. This includes, but shall not be limited to, the development and adoption of master plans, participation in the construction of projects, and exercising control through the planning, platting, zoning, and permitting processes.

(D) It shall be the responsibility of the Director of Planning and Zoning to produce, approve, make and retain records of all drainage plans, drainage reports, design analyses, design drawings, as-built drawings, and maintenance schedules related to all drainage control, flood control, erosion control, and stormwater quality control facilities constructed within the Village.

(E) Application for all land use changes shall address drainage control, flood control, and erosion control in terms of the interaction of these parameters with other requirements and



needs produced by the proposed land use changes, and shall comply with an adopted drainage management plan.

(F) Requests for building permits, site plan approval, or the platting of land for the purpose of major or minor subdivision, and for replats, shall be accompanied by appropriate grading, drainage control, flood control, erosion control, and stormwater quality control information.

(1) Grading and Drainage plan. Drainage plans are prepared with or on the detailed grading plan and address both on-site and off-site drainage control, flood control and erosion control issues.

(2) Drainage report. A drainage report is a comprehensive analysis of the drainage control, flood control, and erosion control constraints on and impacts resulting from a proposed platting, development, or construction project. Drainage reports are required for major subdivisions containing more than five lots or constituting five acres or more, platting or construction within a designated flood hazard area.

(3) Erosion control plan. An erosion control plan is usually incorporated into the drainage plan or drainage report. Erosion control plans address all phases of each project from initial grading, through, and including final occupancy. The ten-year design storm shall be used to determine the treatment measures necessary for the prevention of damage due to soil movement for the on-site area of development.

(G) All drainage submittals shall be prepared under the direction of and signed by a registered professional engineer competent in surface hydrology and drainage, and shall include a statement that the engineer has personally inspected the land, and a statement as to whether it appears that grading, filling, or excavation has occurred thereon since the existing contour map was prepared.

(H) Submitted plans will be checked by the Village designated engineer and the applicant shall bear the cost per Resolution No. 2003-6-2.

(I) Drainage control considerations specifically address safety, convenience, and economics for both private property and public facilities.

§ 4.3.6 INSPECTIONS

(A) Whenever necessary to make an inspection to enforce any of the provisions of this Article, the Director of Planning and Zoning or his authorized representative may enter such premises at any reasonable time to inspect the premises or to perform any duty imposed upon him; provided, however, that if such premises is occupied, he shall first present proper credentials and demand entry. If such premise is unoccupied, he shall first make a reasonable effort to locate the owner or other persons having charge or control of the premises and demand entry.

(B) If entry is refused or if the owner or other responsible person is not found, the Director or his authorized representative shall proceed according to § 9.2.24(E).

§ 4.3.7 VIOLATIONS, NONCOMPLIANCE, PENALTY

(A) If the Director finds that any of the conditions of this Article are being violated, he shall notify in writing, the owner, tenant, agent, occupant, or person in charge of the premises, indicating the nature of the violation and ordering its correction within seventy two



(72) hours from the date of notification, or in case of severe overflow violation, immediate remedy.

(B) Where, after investigation, a notice has been issued by the Director or his authorized representative to the owner, tenant, agent, occupant, or person in charge of the premises on which a violation has occurred and the order is not complied with within the designated time, or if the responsible party or violator cannot be found or determined, the Director may cause such remedies as are necessary to be made. The reasonable cost of such remedies shall constitute a lien against the property on which the violation occurred and was remedied. The lien shall be imposed and foreclosed in the manner provided in §§ 3-36-1 – 3-36-6 NMSA 1978.

(C) For prohibited dumping or groundwater contamination, or a second violation of this Article, the Director or designated representative is hereby authorized to issue citations for violation of this Article. Such citations shall order the alleged violator to appear on a date certain in Village Municipal Court at the next regularly scheduled Court session or any special setting the Judge may designate. Violators will be prosecuted to the full extent of the law.

(D) Where, after investigation, a notice has been issued by the Director to the owner, tenant, agent, occupant, or person in charge of the premises of the property on which a violation has occurred and the order is not complied with, within such reasonable time as may be prescribed by the Director, the Village may revoke or refuse to renew or issue any permit to the violator and/or the property owner until such remedies, as are necessary, are made, or if remedy is made by the Village, until the cost of such remedies is paid to the Village.

(E) It shall be sufficient notice under the provisions of this Article to make delivery of such notices in person or by registered mail. If the name and address of the owner cannot be reasonably ascertained from the current county tax rolls and the premises are unoccupied, it shall be sufficient notice under this Article to publish the notice in English in a newspaper of general circulation once a week for four consecutive weeks. The owner of the property shall have the right to appeal pursuant to § 9.2.25(H) of the 2013 Codified Ordinances of the Village of Los Ranchos.

§ 4.3.8 ADDITIONAL PERMITS

The issuance of a permit by the Village does not relieve the owner/developer from obtaining any additional grading or fill permits that may be required by Bernalillo County, the State of New Mexico, M.R.G.C.D., A.M.A.F.C.A., City of Albuquerque, ABCWUA, agencies, or governmental bodies having jurisdiction over these areas of the Village by State Law, Joint Powers Agreements, or Memorandums of Understanding.

§ 4.3.9 APPEALS

An appeal of a determination of the Director may be made in the manner prescribed in § 9.2.25(H) of the 2013 Codified Ordinances of the Village of Los Ranchos.

§ 4.3.10 SEVERABILITY

Any section, subsection, sentence, clause or phrase of this Article or the Code that is held to be unconstitutional or invalid shall not affect the validity of the remaining portions of this Article or the Code, since the Board of Trustees expressly intended to pass each section,



subsection, sentence, clause, phrase, and part of this Article or the Code separately and independently or every other part.

Ordinance and State Law References regarding Chapter 4, Article 3:

Ordinance 134, Codification enacted February 14, 1996 codified ORD #108 as Chapter 2, and modified language;

Ordinance #211, August 8, 2007;



EXHIBIT B

PROCEDURES FOR PLAN REVIEW

Village of Los Ranchos, NM Zone Review for Building Permits

Two sets of plans are required for all construction which requires building permits from Bernalillo County.

The application must be filled out completely.

If the plans do not list Los Ranchos as location, use BIG red stamp and stamp them (all pages).

1. Check that all structures are outside of the setback areas.
2. FAR – Measurements are OUTSIDE measurements of ALL enclosed space, not heated area. This measurement will often conflict with the square footage listed on the plans. Count all ancillary buildings, including car ports, as per ordinance.

Calculate total FAR. Calculate total permeable surface. Review plans to ensure all setbacks, step-backs, height of building, solar, % of second story etc. ordinances are met.

ALL AREA over 17 feet in height is counted as 2nd story space and is included in FAR.

3. Review all plans submitted for compliance with NPDES – require SWPPP on all projects disturbing one acre or more per Storm Water Management Ordinance.

Review all site plans for potential water quality impacts, including erosion and sediment control, control of other wastes, and any other impacts that must be examined according to the requirements of the Storm Water Management Ordinance

4. For construction requiring automatic sprinkler systems, approve conditionally, attach Bernalillo County Fire Department approval required label. If plans are redlined, approve conditionally on whatever needed to be changed actually being changed
5. Stamp EVERY page of plans, label on front and stamp thereafter.

Fences, demolition and buildings of less than 120 square feet do not generally require Bernalillo County permits.

After approval, invoice (2 copies), keep Village copy with all accompanying documentation, return two to applicant with instructions to go to Bernalillo County for building permit and to schedule inspections.

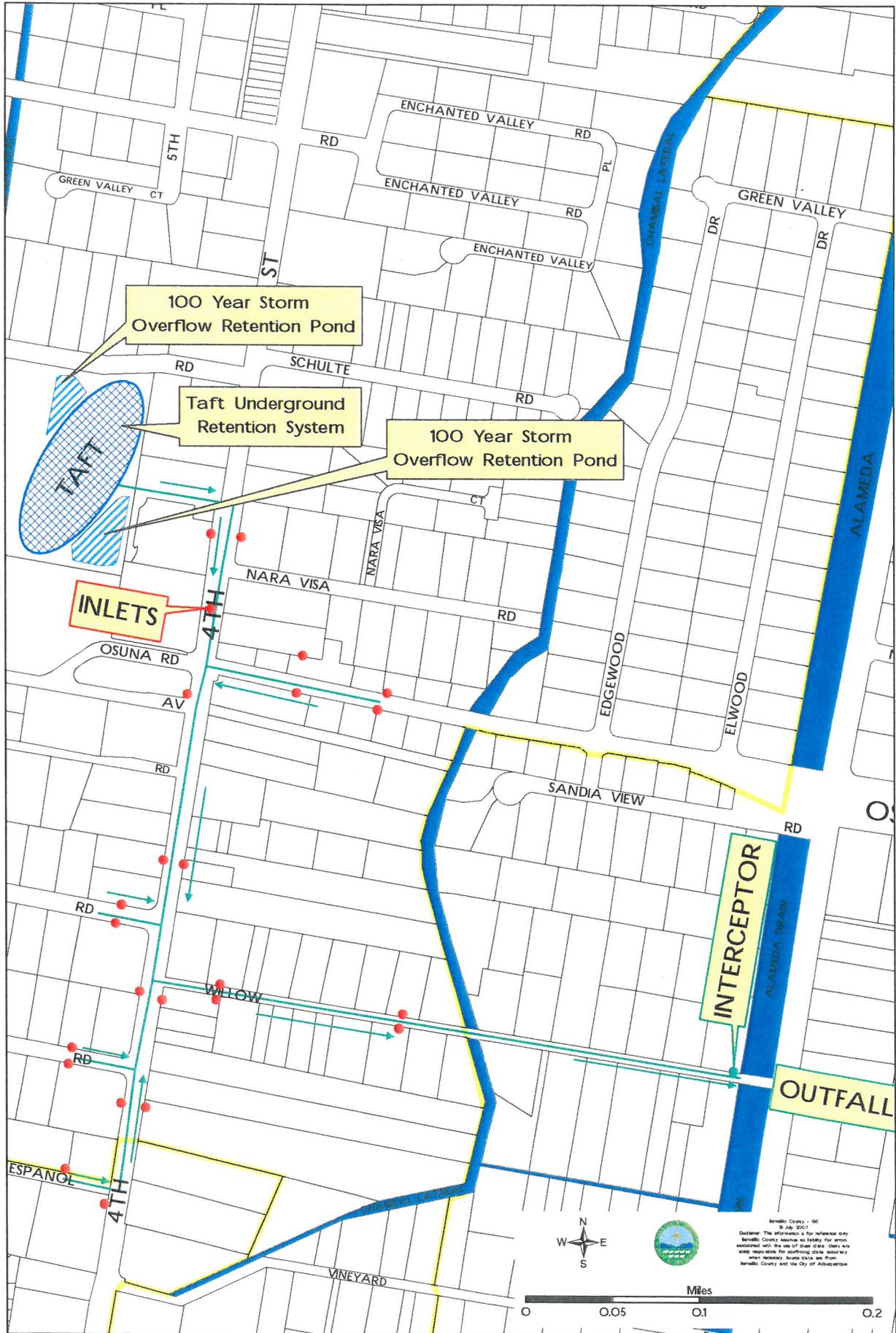
Note of caution: Never release plans without being paid. Never allow the Village set to leave the office.

Bag, Tag (usually done by Administrative Assistant) and file.

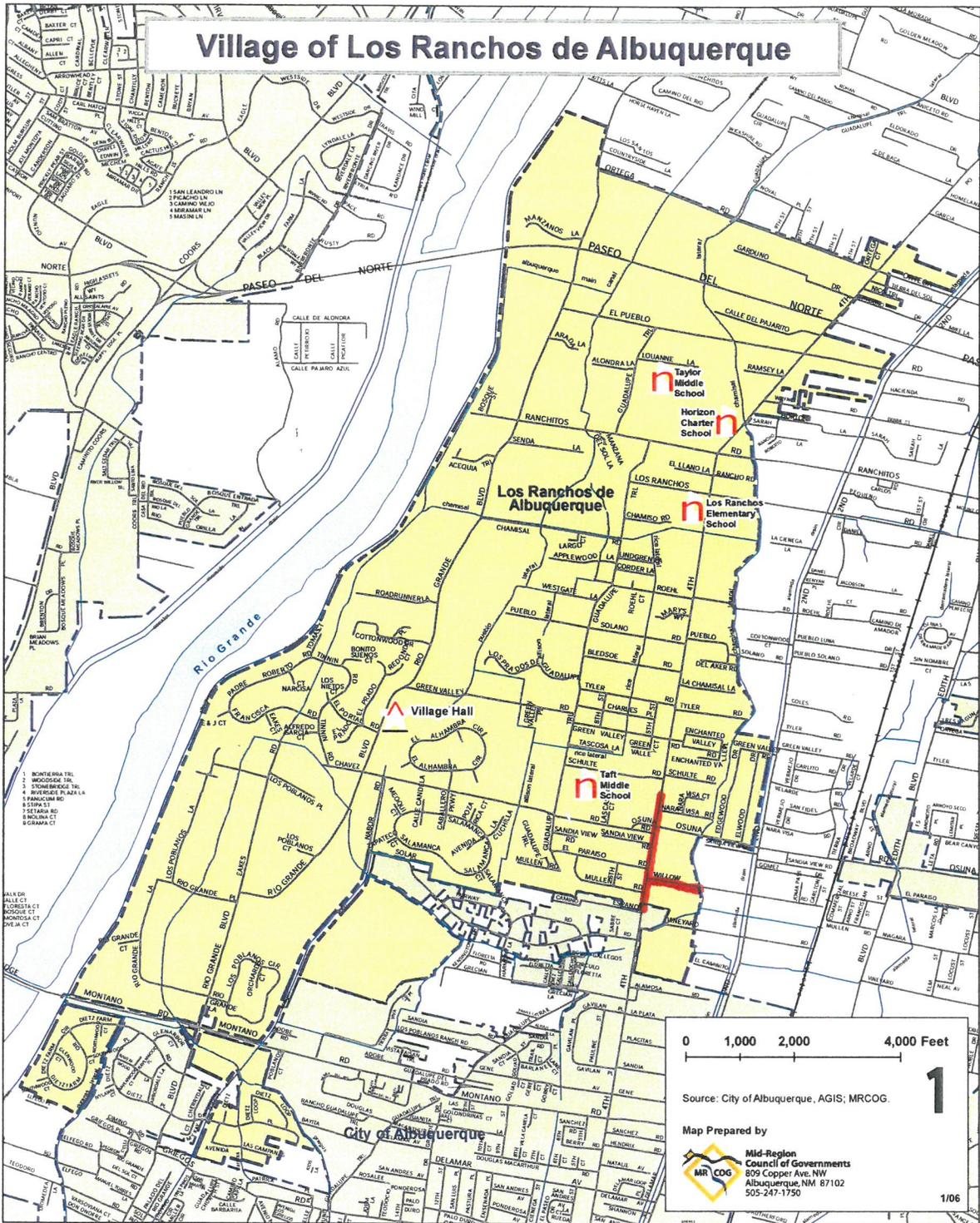
EXHIBIT C

STORM SEWER MAP

Village of Los Ranchos Storm Sewer System



Benelli County - 66
 9 July 2007
 Disclaimer: The information is for reference only.
 Benelli County assumes no liability for errors
 associated with the use of these data. Users are
 solely responsible for confirming data accuracy
 when necessary. Source: City of Albuquerque
 Benelli County and the City of Albuquerque



Village of Los Ranchos storm sewer (red line) in relation to Village limits.

EXHIBIT D

PUBLIC EDUCATION OUTCOMES REPORT



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.KeepTheRioGrand.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 car loads 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



ELECTRONIC RECYCLING

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. SCAFCA

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***