



DEPARTMENT OF THE AIR FORCE
377th Civil Engineer Division (AFMC)

1 Jun 07

MEMORANDUM FOR US EPA REGION 6
WATER QUALITY PROTECTION DIVISION (6-WQ-NP)
ATTN DIANA SMITH
1445 ROSS AVE SUITE 1200
DALLAS TX 75202

FROM: 377 MSG/CEVC
2050 Wyoming Blvd SE
Kirtland AFB NM 87117-5270

SUBJECT: Submittal of MS4 Notice of Intent (NOI) for Kirtland Air Force Base

GWQ-C
CUSTOMER SERVICE BRANCH

2007 JUN -6 PM 2:48

RECEIVED

1. On behalf of Kirtland Air Force Base (Kirtland AFB), New Mexico, we are submitting the attached Notice of Intent (NOI) for the purpose of obtaining coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (Small MS4), Permit No. NMR040000. The Small MS4 at Kirtland AFB is automatically designated under 40 CFR 122.32(a)(1)) since it is located within the City of Albuquerque urbanized area; in Bernalillo county New Mexico.
2. As required in section 1.2.3.1 of the permit language, the NOI was made available for public review (at the Central New Mexico Community College Montoya Campus Library, 4700 Morris NE, Albuquerque, and on the Kirtland AFB Web page) for a 60-day period beginning on 2 Apr 07 and ending 31 May 07. Public notices indicating that the NOI was available for public review were made in the Albuquerque Journal (1 Apr 07 and 8 Apr 07), and in the Kirtland AFB weekly newspaper, the Nucleus (30 Mar 07 and 13 Apr 07). Please note that during the 60-day public review period, no public comments on the NOI were received.
3. To clarify any information submitted, please contact my Water Quality Program Manager, Mr. Patrick A. Montañó, 846-8577.

JOHN S. PIKE
Chief, Compliance and Pollution Prevention Section
Environmental Management Branch

Attachment: Kirtland Air Force Base
Small MS4 Notice of Intent

cc: w/attachment

Program Manager
Point Source Regulations Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, New Mexico 87502

Director, Environmental Department
Pueblo of Isleta
Isleta, New Mexico 87022

Notice of Intent (NOI)
Kirtland Air Force Base, New Mexico

National Pollutant Discharge Elimination System (NPDES)
General Permit For Discharges From Small Municipal Separate Storm Sewer
Systems (MS4) – Permit No. NMR040000

1. Legal Name of the MS4 Operator: **Department of the Air Force, Kirtland Air Force Base**
Mailing address: **377 ABW/CC**
2000 Wyoming Blvd. SE
Kirtland AFB, NM 87117-5000
505-846-7377

Office/Department Responsible for Compliance with Small MS4 Permit Compliance and Development/Implementation of Storm Water Management Plan:

Mailing address: **Environmental Management Branch**
377 MSG/CEV
2050 Wyoming Blvd. SE
Kirtland AFB, NM 87117-5663
505-846-2751

Contact Person: **Patrick A. Montano**
Telephone Number: **505-846-8577**

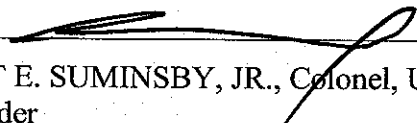
2. The MS4 Operator is a: **Federal Facility - Military Base**
3. The Small MS4 at Kirtland AFB (automatically designated under 40 CFR 122.32(a)(1)) is located within the **City of Albuquerque** urbanized area; in **Bernalillo** county New Mexico. The approximate center of the **Kirtland AFB** Small MS4 is **35.0637916** latitude and **106.5558176** longitude. A map showing the general area of Kirtland AFB is shown in **Figure 1**. The area or portion of Kirtland AFB (**5.53 square miles, or 3,540 acres**) included within the City of Albuquerque urbanized area is shown in **Figure 2**. The total Kirtland AFB area (including the Forest Service Withdrawal lands) is approximately 82.8 square miles or 53,000 acres.
4. The major receiving water is the **Rio Grande River** which is approximately 4 miles west of the Kirtland AFB boundary. The MS4 **Does** discharge to waters for which a **TMDL** applicable to discharges from the MS4 has been approved. **See Attachment 1 (pages 5-6)** for discussion on how the eligibility requirements of Part 1.4.6 of the MS4 permit have been met.
5. The MS4 is **NOT** located on Indian Country lands.
6. The MS4 operator is **NOT** relying on another governmental entity to satisfy one or more permit obligations.
7. Part 1.5, Endangered Species Act (ESA) Eligibility Provisions Documentation: **See Attachment 2 (pages 7-8)**.

8. Part 1.6, National Historic Preservation Act (NHPA) Eligibility Provisions Documentation:
See Attachment 3 (page 9).

9. A summary of issues raised in any local public comments received by Kirtland AFB (the MS4 operator) on the draft NOI/SWMP information and Kirtland AFB's responses will be summarized in **Attachment 4 (page 10)** following the 60-day public review period and prior to submitting the final NOI to the EPA Region VI.

10. A description of the storm water management program (SWMP), including best management practices (BMPs) that will be implemented and the measurable goals for each of the storm water minimum control measures specified in Part 5.3 of the permit, the month and year in which the MS4 operator will start and fully implement each of the minimum control measures or the frequency of the action, the name of the person(s) or position(s) responsible for implementing or coordinating the SWMP. **See Attachment 5 (pages 11-22).**

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

Signed:  Date: 21 Mar 07
ROBERT E. SUMINSBY, JR., Colonel, USAF
Commander

For Area of Kirtland AFB Within City of Albuquerque Urbanized Area, see Figure 2.

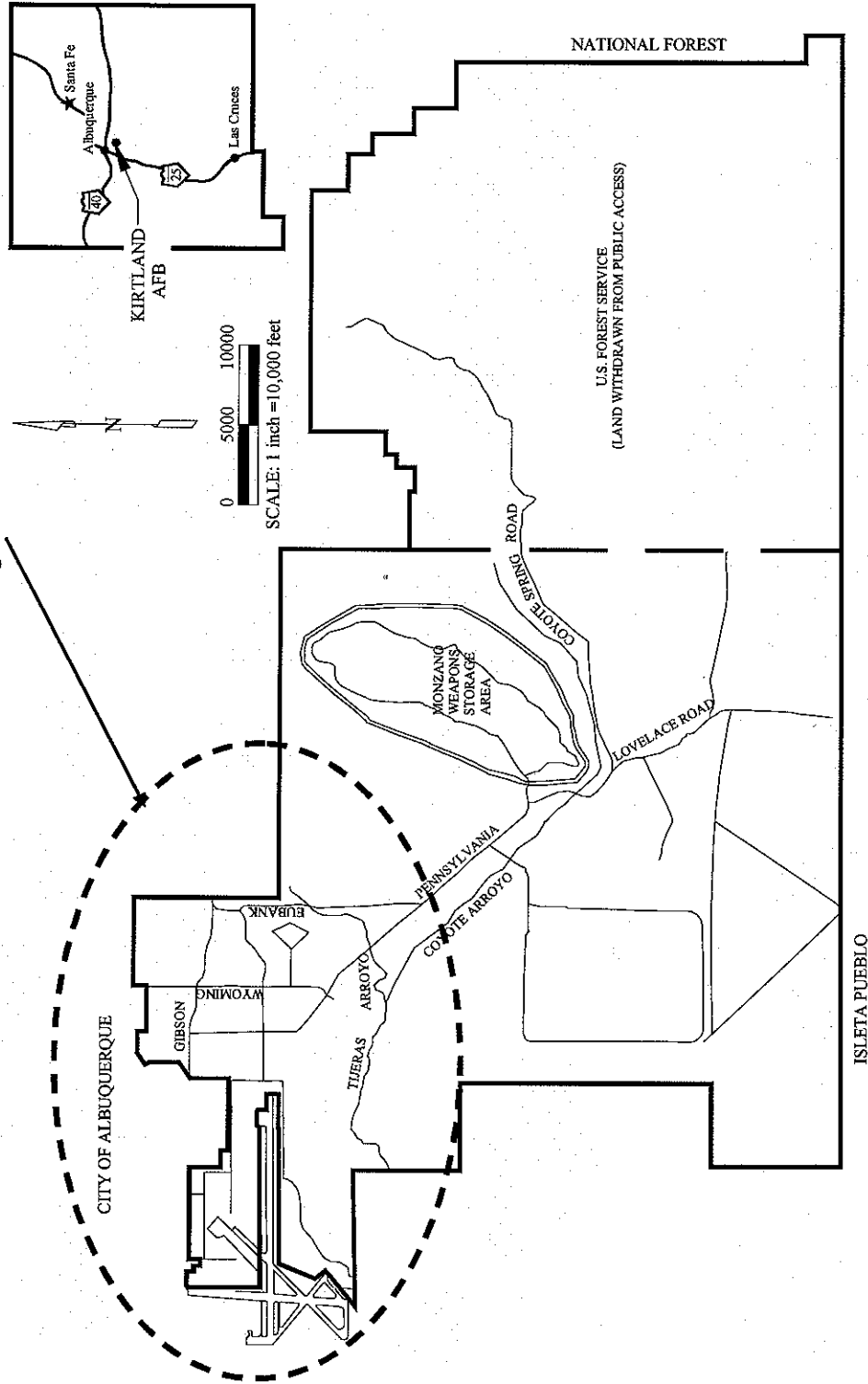


Figure 1. Kirtland AFB General Location Map

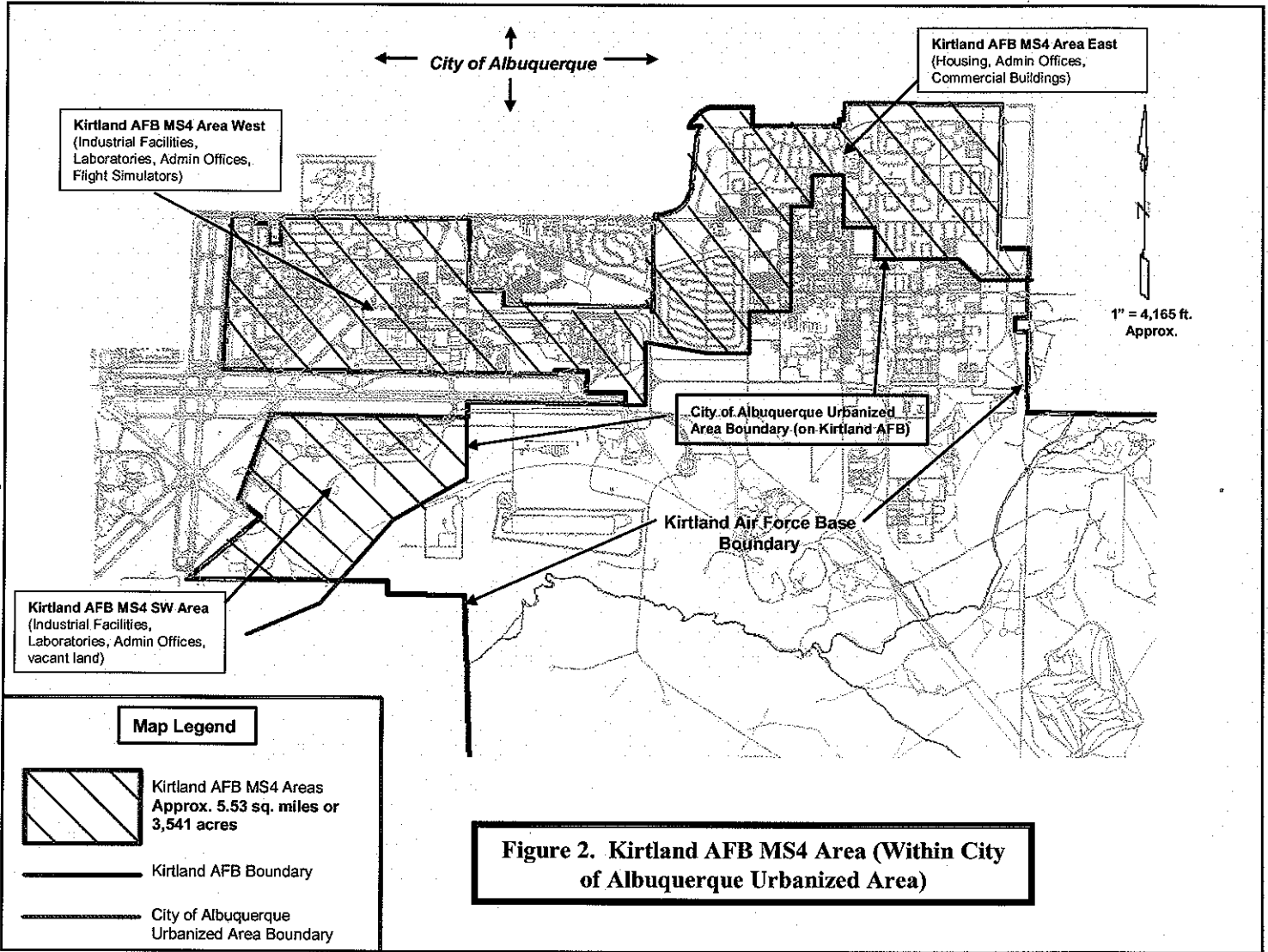


Figure 2. Kirtland AFB MS4 Area (Within City of Albuquerque Urbanized Area)

Attachment 1

Total Maximum Daily Load (TMDL) Eligibility Documentation

Kirtland Air Force Base is located southeast of the City of Albuquerque, New Mexico. All storm water from the base eventually flows into the Rio Grande River (approx. 4 miles west of the MS4 permitted area on the base). Drainage from the base first enters one of several ephemeral streams in the area or drains into the City of Albuquerque's storm sewer system. Storm Water drainage from most of the base flows into Tijeras Arroyo, which flows into the Rio Grande. Tijeras Arroyo is a non-classified stream; therefore, it has no designated uses and no numeric water quality standards. Storm water from the Kirtland Family Housing area which is located within the MS4 permit area (City of Albuquerque urbanized area) drains directly into the City of Albuquerque's storm sewer system. The Kirtland Family Housing area is situated on land owned by the United States Air Force, however, a private contractor operates the housing area and owns the houses and associated support buildings. Additionally, the private contractor is responsible for roads and grounds maintenance which includes maintenance of the storm sewer system within the housing area.

Section 303(d) of the Federal Clean Water Act required states to develop TMDL management plans for water bodies determined to be water quality limited. The New Mexico Environment Department Surface Water Quality Bureau has developed a TMDL for the portion of the Rio Grande where storm water from the Kirtland AFB Small MS4 ultimately discharges to (middle Rio Grande). The New Mexico Environment Department Surface Water Quality Bureau November 2001 report titled "Middle Rio Grande Total Maximum Daily Load for Fecal Coliform" provides detailed discussion on the TMDL for fecal coliform. Base on consultation with New Mexico Environment Department Surface Water Quality Bureau personnel conducted on 11 Dec 06, a fecal coliform TMDL wasteload allocation has not been established for the Kirtland AFB Small MS4.

There are numerous activities that occur on Kirtland AFB including both industrial-type activities as well as the housing of military personnel. These activities, including the housing of dogs and horses (existing horse stable on Kirtland AFB is outside of the City of Albuquerque urbanized area), operation of septic tanks, and potential breaks in the sanitary sewer lines and sanitary sewer overflows, could contribute fecal coliform contamination to storm water discharges from the Base. With this in mind and in order to be consistent with the fecal coliform TMDL, Kirtland AFB has initiated the following best management practices.

- a) Kirtland Family Housing (KFH) has completed installation of five dog feces collection stations (with doggie bags) that are situated throughout the public areas of the housing area. These stations are checked twice a week, emptied and new bags put in if needed. In addition, KFH maintenance personal also periodically go out with "pooper scoopers" and clean up what the tenants don't pick up from their dogs.
- b) Kirtland AFB has established and maintains an active Septic Tank Management Plan. The plan inventories and documents all of the septic tanks on Kirtland AFB. There are approximately 45 active septic tanks on Kirtland AFB, 6 of which are located within the MS4 permit area (within the City of Albuquerque urbanized area). All of the active septic tanks are registered and are operated in compliance with the New Mexico Environment Department Liquid Waste Disposal Regulations. Active tanks are pumped

out periodically to insure proper operation. All new septic tank installations, as well as closure of inactive tanks are conducted in compliance with New Mexico Environment Department Liquid Waste Disposal Regulations.

- c) Kirtland AFB employs in-house staff (government personnel) and contracted staff for general maintenance of its sanitary sewer system. The government personnel are responsible for maintenance and operation of the sewer mains (main sewer lines up to lateral connections to buildings) and the contracted staff is responsible for maintenance and operation of the sewer lines from the lateral connections at the mains to and including lines within buildings. Both government and contracted personnel maintain 7 lift stations on Kirtland AFB. It should be noted that Kirtland AFB does not perform any treatment of sanitary sewer wastewater generated on base. All sanitary sewer wastewater from the base flows into the City of Albuquerque sewer system and is treated at the City of Albuquerque Publicly Owned Treatment Works (POTW). Kirtland AFB currently holds a Wastewater Discharge Permit (Permit No. 2068A-6) issued by the City of Albuquerque Public Works Department Wastewater Utility Division.

- d) During December 2006, Kirtland AFB completed the initial phase of video surveys conducted on sanitary sewer lines on the west side of the base. The results of the inspection and condition assessment completed indicate that the majority of segments inspected are in fair condition, despite their age. Notable is that over 19,000 feet of existing sanitary sewer line was video surveyed. Ninety-one manholes were also studied and the majority are in fair condition. Several areas and locations will require some amount of repair. Various forms of repair may be used with recommendations ranging from replacement, to cured in place pipe, to slip-lining. Design of the repairs has been initiated and depending upon funds availability repairs could start as soon as June 2007. It should be noted that funding for this initial phase cover approximately 40% of the KAFB west side sanitary sewer system. Programming of additional funding has been initiated for a second phase of surveys/inspection and repairs for the remaining portions of system on the west side. Once that is completed, Kirtland AFB will expand the investigations and repairs toward the Kirtland AFB east side which may take several years to complete.

Attachment 2

Endangered Species Act (ESA) Eligibility Documentation

Consistent with the conditions of the MS4 General Storm Water Permit, the impacts of storm water discharge-related activities on federally listed endangered and threatened species, and designated critical habitat must be assessed. The U.S. Fish and Wildlife Service's list of federal endangered and threatened species of concern for Bernalillo County, New Mexico includes five species. These species include the following:

- Southwestern Willow Flycatcher
- Bald Eagle
- Mexican Spotted Owl
- Black-footed Ferret
- Rio Grande Silvery Minnow

No habitat or the presences of the Rio Grande Silvery Minnow occurs on Kirtland AFB. This species only occurs within the Rio Grande River which is not present within the boundaries of Kirtland AFB and is approximately 4 miles west of the MS4 permitted area on the base. The Bald Eagle and the Mexican Spotted Owl may migrate through the Kirtland AFB area at certain times of the year, however, these species are not known to utilize Kirtland AFB for any extended periods of time and no documented critical habitat areas exist within the base boundaries. The Southwestern Willow Flycatcher and the Black-footed Ferret are not known to occur on Kirtland AFB nor is there any documented critical habitat areas within the base boundaries for these species.

Potential impacts that Kirtland AFB facilities, personnel, projects, and municipal-type activities may have on federal endangered or threatened species of concern or critical habitats are evaluated on an ongoing basis in accordance with the National Environmental Policy Act (NEPA) process and the Kirtland AFB Natural Resources Management Plan (INRMP) (2001). The evaluations by the Kirtland AFB Natural Resources Office identify practices or activities that present a threat or potentially present a threat to endangered or threatened species and critical habitats at the base. The Natural Resources Office staff works in conjunction with other base departments and offices to ensure that base activities and facilities are appropriately protective of threatened and endangered species and their critical habits.

Kirtland AFB has 1,980 acres of "Improved" land. Improved Grounds are developed areas that have lawns and landscaped plantings requiring continual maintenance, impervious surfaces such as buildings, roads, and parking lots. It also includes areas that have been extensively altered, like the active landfill. The majority of improved grounds at Kirtland AFB are located in the cantonment area in the northwest portion of the base which includes the MS4 permit area. This is where the base housing is located and storm water discharges associated with the MS4 permit occur. Currently, Kirtland AFB's storm water discharges, allowable non-storm water discharges, and discharge-related activities locations, including those located within the MS4 permitted area, will not have any effect on threatened or endangered species or critical habitat.

Based on the information provided above and considering Kirtland AFBs current and ongoing Natural Resources Management Program activities and requirements, Kirtland AFB meets the Endangered Species Act (ESA) Eligibility Provisions of the MS4 permit under Criterion A: no

endangered or threatened species or critical habitat occur in the proximity to the MS4 or points where authorized discharges reach waters of the United States.

Attachment 3

National Historic Preservation Act (NHPA) Eligibility Documentation

Under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, the United States Air Force and Kirtland AFB are required to assess any potential effects on historic properties (36 CFR 800). Section 110 of the NHPA required that Kirtland AFB complete an inventory of historic properties located on its land (36 CFR 60, 63, 78, 79, and 800). Through this inventory, Kirtland AFB has determined that over 600 archaeological resources exist on KAFB, as well as, 200 significant historic facilities. The NHPA requires Kirtland AFB to evaluate all possible impacts to these resources. Thus, any actions necessary to uphold this MS4 Permit will be evaluated to ensure no impacts will occur on these historic properties. If it becomes apparent that an action associated with the MS4 permit could potentially affect historic properties, the permit holder will request that the Kirtland AFB Cultural Resource Manager initiate consultation with the New Mexico State Historic Preservation Office to determine the best mitigation practices to prevent adverse effects to historic properties. However, no actions associated with the MS4 permit that will impact any documented historic properties located on Kirtland AFB are currently envisioned.

Additionally, since Kirtland AFB is a Federal Facility, all future potential actions associated with construction of structural BMPs and municipal-type/MS4 activities that may have an impact on historic properties or culturally significant sites are evaluated on an ongoing basis in accordance with the National Environmental Policy Act (NEPA) process. Appropriate measures are taken and documented through the NEPA process to ensure protection of historic properties and culturally significant sites.

Based on the information provided above and considering Kirtland AFBs current and ongoing Cultural Resources Management Program activities and requirements, Kirtland AFB meets the National Historic Preservation Act (NHPA) Eligibility Provisions of the MS4 permit under Criterion A: storm water discharges, allowable non-storm water discharges, and discharge-related activities do not effect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior.

Attachment 4

Summary Of Issues Raised In Any Local Public Comments Received By The MS4 Operator On The Draft NOI/SWMP Information And MS4 Operator's Responses

As required in section 1.2.3.1 of the permit language, this NOI was made available for public review (at the Central New Mexico Community College Montoya Campus Library, 4700 Morris NE, Albuquerque, and on the Kirtland AFB Web page) for a 60-day period beginning on 2 Apr 07 and ending 31 May 07. Public notices indicating that this NOI was available for public review were made in the Albuquerque Journal (1 Apr 07 and 8 Apr 07), and in the Kirtland AFB weekly newspaper, the Nucleus (30 Mar 07 and 13 Apr 07).

During the 60-day public review period, no comments on the NOI were received by the public.

Attachment 5

Summary Description of Kirtland AFB Storm Water Management Program (SWMP) and Best Management Practices (BMPs)

(The Kirtland AFB Water Quality Program Manager is the primary person responsible for directing and coordinating the implementation of the Storm Water Management Program for the Kirtland AFB Small MS4.)

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|---|---|---|--|
| <u>1. Public Education and Outreach</u> | | | |
| <p>Partnering with City of Albuquerque, and/or Bernalillo County, and/or Department of Energy/Sandia National Laboratories</p> | <p>Kirtland AFB will participate in public education partnering activities pertaining to storm water quality.</p> | <p>KAFB Compliance personnel will participate in at least one event per year.</p> | <p>September 2008, Annually Thereafter</p> |
| <p>Partnering with Kirtland Civil Engineering Grounds Keeping Department</p> | <p>KAFB Environmental Compliance will review existing pesticide and herbicide management plans to insure current practices address potential impacts to storm water quality.</p> | <p>Completion of review of existing pesticide and herbicide management plans as required.</p> | <p>July 2008</p> |
| <p>Partnering with Kirtland Family Housing Grounds Keeping Department</p> | <p>KAFB Environmental Compliance will provide access to reference documents on grounds keeping management practices that minimize pollutant discharges to storm water.</p> | <p>Landscape planning and management documents are compiled and supplied to the KAFB Grounds keeping Department as required.</p> | <p>July 2008 and as required thereafter</p> |
| <p>Partnering with Kirtland Family Housing Grounds Keeping Department</p> | <p>KAFB Environmental Compliance will assist Kirtland Family Housing Ground keeping department with the development of a written management plan that address potential impacts to storm water pollution.</p> | <p>Completion of written Kirtland Family Housing Ground keeping management plan.</p> | <p>March 2009</p> |
| <p>Partnering with Kirtland Family Housing Grounds Keeping Department</p> | <p>KAFB Environmental Compliance will provide access to reference documents on grounds keeping management practices that minimize pollutant discharges to storm water.</p> | <p>Landscape planning and management documents are compiled and supplied to the Kirtland Family Housing Grounds keeping Department as required.</p> | <p>March 2009 and continually thereafter</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|--|---|--|
| 1. Public Education and Outreach – (continued) | | | |
| Development and Display of Educational Materials for Base Offices and Transient Personnel | KAFB Environmental Compliance will develop storm water-related posters for display in common office areas. | Completion and placement of storm water-related posters in common office areas as required. | Initial posters completed and displayed July 2006, remaining development and display Dec 2007 |
| | KAFB Environmental Compliance will develop or identify pamphlets and flyer materials appropriate for distribution in common public places | Storm water education pamphlets and/or flyer materials developed and reproduced and re stock as needed. | Initial pamphlets and fliers completed and displayed July 2006, remaining development and display Dec 2007 |
| | KAFB Environmental Compliance will develop a storm water education program to be held at on base public schools and/or KAFB Boys and Girls Club. | Completion of one educational outreach event per year. | June 2008 and annually thereafter |
| Development and Distribution of Educational Materials to Base Residences | KAFB Environmental Compliance will provide to Base Housing Office pamphlets and/or flyer materials for inclusion in New Resident induction packages. | Storm water education pamphlets and/or flyer materials developed and reproduced and re stock to Base Housing as needed. | March 2008 |
| | KAFB Environmental Compliance will develop storm water-related posters for display in common Kirtland Family Housing area | Completion and placement of storm water-related posters in common housing areas as required. | March 2008 |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|---|---|---|-----------------------------------|
| 1. Public Education and Outreach - (continued) | | | |
| Development and Distribution of Educational Materials to Base Residences (continued) | KAFB Environmental Compliance will develop or identify pamphlets and flyer materials appropriate for distribution in common Family Housing area. | Storm water education pamphlets and/or flyer materials developed and reproduced and re stock as needed. | March 2008 |
| | KAFB Environmental Compliance will develop a storm water education program to be held at Kirtland Family Housing common/public area. | Completion of one educational outreach event per year. | June 2008 and annually thereafter |
| | KAFB Compliance personnel will develop and place general SW pollution prevention information signs at various public locations within the Kirtland Family Housing area. | Document number and location of signs erected. | June 2009 |
| Educational Advertisements or Notices Promoting Storm Water Awareness and Protection | KAFB Compliance personnel will submit public service announcements that increase awareness of storm water protection. | One storm water awareness advertisement published annually in base newsletter or newspaper. | June 2009 and annually thereafter |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|--|--|---|
| 2. Public Participation and Awareness | | | |
| Public Stakeholder Meeting | KAFB Environmental Compliance will hold a public information meeting on storm water pollution prevention awareness and seek public input on general storm water issues. | Completion of one public meeting event per year | June 2008 and annually thereafter |
| Pollution Information Line | KAFB Environmental Compliance will implement a web-based information service for storm water and/or pollution prevention issues. | Number of hits/visits on web site. | March 2010 |
| Solicit Public Input on Storm Water Related Issues and Activities | KAFB Environmental Compliance will provide a phone in hot line to report storm water pollution issue. | Number of phone calls reporting storm water pollution occurrences. | Currently, KAFB personnel can call the Environmental Management Office, SW specific hotline - December 2007 |
| Illegal Dumping/General Awareness | KAFB Environmental Compliance will provide comment boxes at various public locations to seek public input and/or suggestions on pollution prevention and storm water-related subjects. | Number of comments received. | June 2008 |
| General Public Participation, Pet Waste Collection | KAFB Environmental Compliance will complete placement of storm drain and storm grate inlet illegal dumping labels throughout the KAFB areas covered under the Small MS4 permit. | Number of stickers placed. Approximately 75% of permit area completed as of June 2006. | December 2007, and ongoing as required for maintenance. |
| General Public Participation, Pet Waste Collection | Provide pet feces collection stations in the Kirtland Family Housing (KFH) areas. | Number of stations installed. Five stations currently installed. | September 2006 - Kirtland Family Housing (KFH) has completed installation of five dog feces collection stations (with doggie bags) that are situated throughout the public areas of the housing area. These stations are checked twice a week, emptied and new bags put in as needed. On-going. |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|---|---|--|--|
| 3. <u>Illicit Discharge Detection and Elimination</u> | | | |
| Identify, Inventory, and Inspect Base Oil Water Separators (OWS) | <p>An inventory of all base OWS systems will be compiled and maintained. Sampling results Clean-out and maintenance documentation from individual OWS's will be maintained by the KAFB Environmental Compliance office and KAFB Compliance personnel will perform inspections of individual systems on an as needed basis.</p> <p>Verify and document individual OWS connections to the sanitary sewer on the inventory. Any OWS systems connected to the storm sewer or those that are undersized will be upgraded as appropriate.</p> | <p>The KAFB Env. Compliance personnel have completed the development of an OWS Management Plan that includes an inventory of all active OWS, provides information regarding the proper use of OWSs, and provides guidance regarding the proper sampling and cleanout procedures.</p> <p>Based on the inventory and inspections completed during the development of the original OWS Management Plan, several OWS units were determined to be connected to the storm sewer system. All units found to be cross-connected were upgraded and connected to the sanitary sewer.</p> | <p>The original OWS Management Plan was developed in late 1998. KAFB Compliance personnel periodically update the plan as required to reflect current inventories and conditions as required.</p> <p>Required upgrades and elimination of cross-connections were completed during 1999. KAFB Compliance personnel have an on going process to review new construction designs to insure that new cross-connections do not occur.</p> |
| Construct Base Storm Sewer System Map | <p>A Kirtland AFB sewer system map will be developed and maintained. Maps will include both sanitary and storm sewer elements (i.e. lines, influent locations, effluent locations, etc.)</p> | <p>The Kirtland AFB storm sewer and sanitary sewer system maps have been developed and are updated and maintained on an ongoing basis.</p> | <p>Completed, storm sewer and sanitary sewer system maps are updated and maintained on an ongoing basis. A current map is included in the SWMP.</p> |
| Identify, Inventory, and Inspect Base Septic Systems | <p>An inventory of all base septic systems will be compiled and maintained. KAFB Environmental Compliance personnel will perform inspections of individual systems on an as needed basis.</p> | <p>The KAFB Compliance personnel have completed the development of a Septic Tank Management Plan that includes an inventory of all active and inactive septic tanks. Septic tanks are cleanout periodically to insure proper operation.</p> | <p>The original Septic Tank Management Plan was developed in 1997. KAFB Env. Compliance personnel periodically update the plan as required to reflect current inventories and conditions as required.</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|---|---|--|---|
| 3. Illicit Discharge Detection and Elimination - (continued) | | | |
| Dry Weather Inspections | <p>Inspections of storm water discharge locations will be conducted to identify and investigate any illicit, inappropriate, or undocumented non-storm water discharges to the storm sewer system. Upon identification, the potential illicit discharge will traced back to its source.</p> <p>If illicit connection is identified, investigate and document source and appropriateness of discharge and halt (if appropriate).</p> | <p>Kirtland AFB Environmental Compliance personnel will conduct a minimum of two dry weather inspections of storm water discharge outfall locations per year.</p> | <p>March 2008, and on-going as required</p> |
| Illegal Dumping | <p>KAFB Environmental Compliance will complete placement of storm drain and storm grate inlet illegal dumping labels throughout the KAFB areas covered under the Small MS4 permit.</p> <p>KAFB Compliance personnel will implement a web-based information service for storm water and/or pollution prevention issues.</p> <p>KAFB Compliance personnel will provide a phone in hot line to report storm water pollution issue.</p> | <p>Investigate and identify source of dry weather discharge. Halt (if appropriate) illegal discharges. Options for upgrade, maintenance, or repair of illicit or inappropriate discharges will be identified, necessary funding will be allocated, and a schedule for upgrade, modification, and/or elimination will be identified.</p> <p>Number of stickers placed. Approximately 75% of permit area completed as of June 2006.</p> <p>Number of hits/visits on web site.</p> <p>Number of phone call reporting storm water pollution occurrences.</p> | <p>On-going as identified.</p> <p>It should be noted that all actual upgrades and modifications will be completed as funding becomes available.</p> <p>December 2007, and ongoing as required for maintenance.</p> <p>March 2010</p> <p>Currently, KAFB personnel can call the Environmental Management Office, SW specific hotline - December 2007</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|---|--|---|---|
| 4. Construction Site Runoff Control | | | |
| <p>National Pollutant Discharge Elimination System (NPDES) – Storm Water Construction General Permit (CGP), Compliance and Enforcement on KAFB</p> | <p>KAFB Environmental Compliance will conduct a review of all new construction projects on KAFB for potential NPDES CGP requirements and maintain an inventory of all active permitted and previously closed construction sites.</p> <p>For projects requiring NPDES CGP coverage, KAFB Environmental Compliance personnel will assist contractors with Storm Water Pollution Prevention Plan (SWPPP), Notice of Intent, and Notice of Termination development. Upon completion of contractor developed SWPPP, KAFB personnel will review SWPPP for conformance with CGP language requirements prior to start of project activities.</p> <p>KAFB Environmental Compliance will conduct periodic inspections of active CGP covered sites to insure compliance with site specific SWPPP.</p> <p>Deficiencies noted during inspections conducted by KAFB Environmental Compliance will be identified on inspection reports for corrective action by contractor.</p> <p>KAFB Environmental Compliance will develop and place NPDES CGP awareness posters and brochures at all active permitted construction sites.</p> | <p>Review new construction projects as required.</p> <p>Document review of SWPPPs and assist contractors as required.</p> <p>Conduct and document inspections at all active CGP covered site at least once per month during active site work.</p> <p>Document deficiencies and corrective actions taken.</p> <p>Number of posters and informational brochures placed at construction sites.</p> | <p>KAFB Environmental Compliance initiated a storm water construction permit compliance oversight program in 2001. This is an ongoing program.</p> <p>June 2008</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|---|---|----------------------------------|
| 4. Construction Site Runoff Control – (continued) | | | |
| National Pollutant Discharge Elimination System (NPDES) – Storm Water Construction General Permit (CGP), Compliance and Enforcement on KAFB – (continued) | <p>KAFB Environmental Compliance will develop a CGP compliance training presentation. The contractor personnel responsible for CGP compliance and SWPPP implementation will be required to complete this training prior to start of project activities.</p> <p>Construction site operators should be directed to available resources on application, installation, and use of control devices and other general storm water pollution prevention resources.</p> | <p>Number of contractor personnel completing training.</p> <p>The KAFB Environmental Compliance office will maintain a list of storm water pollution prevention resources that can be distributed to construction site operators as needed.</p> | <p>June 2009</p> <p>On-going</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|---|---|------------------------------|
| 5. Post-Construction Site Runoff Control | | | |
| Long Term Operation and Maintenance of Structural BMPs (Kirtland AFB Proper) | KAFB is the final owner of all structural BMPs. As such KAFB Grounds Maintenance has an ongoing operation and maintenance plan for addressing structural BMPs. KAFB Environmental Compliance will review existing ground maintenance plans for adequacy to insure that structural BMPs are maintained to support post-construction site-runoff. | Completion of review of existing KAFB written Grounds Maintenance plan and tracking of maintenance activities. | March 2009 |
| Long Term Operation and Maintenance of Structural BMPs (Kirtland Family Housing Area) | Kirtland Family Housing (KFH) is the final owner of all structural BMPs within their area. As such KFH Ground Maintenance is responsible for ongoing operation and maintenance of their structural BMPs. KAFB Environmental Compliance Office will assist Kirtland Family Housing Ground Keeping Department with the development of a written management plan that addresses potential impacts to storm water pollution and supports post-construction site-runoff. | Completion of development of written Kirtland Family Housing Ground keeping management plan and tracking of maintenance activities. | July 2009 |
| Post Construction Stabilization - Seeding | KAFB currently requires that sites disturbed during construction be re-seeded with native seed mix. KAFB will continue to enforce this requirement to insure timely vegetative cover to stabilize the surface. | Number of projects complying with native seed mix requirement. | On-going |
| Post-Construction Inspections | KAFB Environmental Compliance personnel will conduct inspections at completed construction sites (previously covered under NPDES CGP) to determine condition of site runoff controls and if maintenance is required. | Number of inspections completed. | September 2007 |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|---|---|--|
| 6. Pollution Prevention/Good Housekeeping | | | |
| Road Maintenance/ Storm Water Grate Cleaning | The KAFB Environmental Compliance office and base facility operations office will identify a reasonable schedule for regular cleaning of base roadways, parking lots, and other appropriate paved areas. Provisions will be made that allow for non-scheduled street cleaning if needed due to a spill, release, or atypical sediment accumulation event. | A regular schedule for conducting cleaning of base roadways, parking lots, and other appropriate paved areas is developed. A standard frequency may be identified and/or schedule may be tied to a given event. Identify personnel and facilities for emergency street cleaning services. | Currently ongoing, Additional review of current practices - March 2008 |
| Vehicle Maintenance/Washing | KAFB Environmental Compliance will develop a Vehicle Maintenance/Vehicle Washing Guidance memorandum, and distribute to offices and departments that conduct maintenance and vehicle washing activities. | Completion of Vehicle Maintenance/Vehicle Washing Guidance memorandum developed and distributed to offices and departments that conduct maintenance and vehicle washing activities. | December 2007 |
| Partnering with Kirtland Civil Engineering Grounds Keeping Department | KAFB Environmental Compliance will develop a guidance document for club or fundraiser car washes that addresses potential impacts to storm water pollution. All club or fundraiser car washes will be coordinated through the KAFB Environmental Compliance office. | Completion and distribution of guidance document and coordination of fundraiser car washes by KAFB Environmental Compliance office. | March 2008 |
| | KAFB Environmental Compliance Office will review existing pesticide and herbicide management plans to insure current practices address potential impacts to storm water pollution. | Completion of review of existing pesticide and herbicide management plans as required. | July 2008 |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|--|--|--|
| 6. Pollution Prevention/Good Housekeeping – (continued) | | | |
| Appropriate Spill Response Procedures and Plans | <p>Kirtland AFB Environmental Compliance office maintains a database of all sites that have hazardous materials and waste and conducts periodic inspections of said sites to ensure appropriate Spill Response procedures are being followed.</p> <p>The KAFB Environmental Compliance office has an active SPCC (Spill Prevention Control and Countermeasure) plan that details measures to control potential releases.</p> <p>The KAFB Environmental Compliance office will review the salt application process on KAFB roadways during winter weather, to ensure it is incorporating BMP's and not causing potential storm water pollution due to over application.</p> | <p>Continue to conduct periodic inspections of satellite hazardous waste points to ensure appropriate BMP's are being implemented.</p> <p>Continue to implement SPCC plan, review and update as necessary.</p> | <p>On-going</p> <p>On-going</p> |
| Salting of Roadways | <p>The KAFB Environmental Compliance office will review the salt application process on KAFB roadways during winter weather, to ensure it is incorporating BMP's and not causing potential storm water pollution due to over application.</p> | <p>Review salt application process and modify as needed.</p> | <p>March 2009</p> |
| Conduct Courtesy Audits or Inspections to Provide Input on Housekeeping Practices and/or Pollution Prevention Practices | <p>On request, the Kirtland AFB Environmental Compliance office will make staff available to provide audits or inspections to base offices or departments to provide input on housekeeping and pollution prevention practices and will inform the base public of this service.</p> | <p>Staff are available to provide courtesy audits or inspections on good housekeeping and pollution prevention practices, as requested by base departments or offices. The level of effort involved in conducting courtesy audits and inspections will be determined based on what is reasonable and practicable for the Kirtland AFB Environmental Compliance office staff to administer.</p> | <p>September 2007, then ongoing as requested and as practicable for Kirtland AFB Environmental Compliance staff to administer.</p> |

| General BMP | BMP Description | Measurable Goal | Expected Implementation Date |
|--|---|------------------------------------|---|
| 6. Pollution Prevention/Good Housekeeping - (continued) | | | |
| General Public Participation, Pet Waste Collection | Provide pet feces collection stations in the Kirtland Family Housing (KFH) areas. | Number of stations installed. | September 2006 - Kirtland Family Housing (KFH) has completed installation of five dog feces collection stations (with doggie bags) that are situated throughout the public areas of the housing area. These stations are checked twice a week, emptied and new bags put in as needed. On-going. |
| Recycling Practices | KAFB conducts an active recycling program that includes recycling of used oil, antifreeze, used oil filters and parts cleaner fluids. | Amount of waste material recycled. | On-going |