



**DEPARTMENT OF THE AIR FORCE
502D AIR BASE WING
JOINT BASE SAN ANTONIO**



29 Mar 2024

Gerald R. Johnson, REM, CESCO
JBSA Water Quality Program Manager
802 CES/CEIEC
1555 Gott Street, Building 5595
Lackland AFB, Texas 78236

Texas Commission on Environmental Quality
ATTN: Storm Water Team
12100 Park 35 Circle
Building F, Floor 2 (MC-148)
Austin, TX 78753

SUBJECT: Phase II Municipal Separate Storm Sewer System Reports for JBSA-Lackland AFB

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization No. TXR040068.

The annual report is for Year 5. The reporting period begins January 1, 2023, and ends December 31, 2023.

As required by the general permit, a copy of the report has been provided to the TCEQ Region 13 Office in San Antonio, Texas.

If you have any questions, please do not hesitate to contact me at (210) 221-4251 or email gerald.johnson.29@us.af.mil

Sincerely



Gerald R. Johnson REM, CESCO
JBSA Water Quality Program Manager

Attachment:

1. Phase II MS4 Annual Report Form, Lackland AFB

Phase II (Small) Municipal Separate Storm Sewer System (MS4) Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number:

TXR040068 Reporting Year: 5

Annual Reporting Year Option Selected by MS4:

Calendar Year 2023

Permit Year: 5

Fiscal Year: January 1, 2023 Last day of fiscal year: December 31, 2023

Reporting period beginning date: (month/date/year) January 1, 2023

Reporting period end date: (month/date/year) December 31, 2023

MS4 Operator Level: Non-traditional small

Name of MS4: Joint Base San Antonio-Lackland (JBSA-LAK) MS4/US Department of the
Air Force

Contact Name: Gerald Johnson Telephone Number: 210-221-4251

Mailing Address: 1555 Gott Street, Bldg. 5595, JBSA Lackland, TX 78236

E-mail Address: gerald.johnson.29@us.af.mil

A copy of the annual report was submitted to the TCEQ Region: YES X NO

Region the annual report was submitted to: TCEQ Region 13

B. Status of Compliance with the TPDES General Permit TXR040000

1. Provide information on the status of complying with permit conditions:
(TXR040000 Part IV.B.2)

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the Texas Commission on Environmental Quality (TCEQ).	X		JBSA-LAK has implemented the measurable goals for the Best Management Practices (BMPs) identified in the approved Storm Water Management Plan (SWMP) and the submitted Notice of Intent. This MS4 Report addresses the SWMP approved on 13 December 2013, as the updated SWMP submitted in April of 2020 has not been approved by the TCEQ as of 30 January 2024.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		JBSA- LAK maintains records and reporting as required.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	X		JBSA-LAK meets the permit eligibility requirements. JBSA-LAK is neither in the Edwards Aquifer (EA) Recharge Zone nor the EA Contributing Zone, therefore is not subject to EA limitations.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report.	X		Yes, currently a SWMP amendment is submitted to TCEQ for review.

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below to meet this requirement (**see Example 1 in instructions**):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1, PEO-1	Hazardous waste generator training.	Yes. Conducting this training actively promotes pollution prevention through environmental awareness.
1, PEO-2	Provide stormwater awareness materials to new installation housing occupants.	Yes. The informational brochure describes stormwater, types of stormwater pollutants, and activities new base personnel can take to protect water resources.
1, PEO-3	Publish stormwater/water quality related newsletter article.	Yes. An article was published in the JBSA Legacy regarding the permit modifications MS4 permit mods specifically. An article mentioned Basura Bash (Trash clean up on the creek) was published in the JBSA Legacy to let people know about the stormwater cleanup actions. There is an article in the base JBSA Legacy discusses preventive measures and actions that all base patrons can take to prevent stormwater pollution.
1, PEO-4	Maintain pet waste management policy for housing occupants.	Yes. Provided to housing residents, it makes them aware of practices to protect water resources.
1, PEO-5	Incorporate sediment, erosion, and illicit discharge awareness training into stormwater training program.	Yes. This is incorporated into annual stormwater training and promotes pollution prevention and awareness.
1, PEO-6	Place SWMP on JBSA public internet site.	Yes. These are retained on eDASH for availability.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1, PEO-7	Maintain Environmental Hotline.	Yes. The Environmental hotline provides a venue for the public to immediately provide any potential environmental issues to the appropriate personnel for awareness and resolution.
1, PEO-8	Maintain storm drain decals.	Yes. Decals provide a heightened sense of stormwater awareness throughout the community.
1, PEO-9	Conduct one community outreach event.	Yes. Conducting education outreach events actively promotes environmental stewardship by bringing awareness through booths, displays and other outreach materials. Basura Bash is conducted annually. Basura Bash Day is a river and waterway clean-up day where volunteers clean up the river and waterways at JBSA SAM at Salado creek park. This event encourages people to clean up and recycle their waste. It lets the public know how to properly recycle.
1, PEO-10	Review standard contract specifications pertaining to hazardous waste and stormwater management.	Yes. These specifications have been updated for all JBSA locations and include specific environmental protection requirements that address stormwater pollution prevention and require a contractor to submit an Environmental Protection Plan for review and approval.
1, PEO-11	Provide sediment, erosion, and stormwater awareness training to facility managers.	Yes. This promotes pollution prevention and awareness.
1, PEO-12	Installation-wide clean-up day.	Yes. Collecting trash and debris results in prevention of adverse effects on aquatic life in the surrounding water bodies.
1, PEO-13	Stormwater message on installation marquees.	Yes. The Marquees provide a heighten sense of stormwater awareness throughout the community.
1, PEO-14	Horse stable manure management awareness training.	Yes. This promotes pollution prevention and awareness for applicable horse stable personnel.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2, IDDE-1	Update and maintain existing storm sewer system map.	Yes. This is a key infrastructure tool required to perform efficient and effective illicit discharge identification, investigation, and elimination activities, including dry weather screening of MS4 Outfalls.
2, IDDE-2	MS4 Field Staff training.	Yes. Training field staff ensures they can detect and eliminate any potential illicit discharges. During the MS4 Dry Weather Field Screening event the MS4 Field Staff are trained and given a refresher for detecting illicit discharge.
2, IDDE-3	Dry weather screening of all JBSA- LAK outfalls.	Yes. This screening processes ensures applicable personnel can detect and eliminate any potential illicit discharges.
2, IDDE-4	Maintain copies of U.S. EPA Illicit Discharge and Elimination Manual for implementing Illicit Discharge Detection and Elimination (IDDE) Procedures.	Yes. This manual provides standardized, approved procedures to identify, investigate, and eliminate illicit discharges.
2, IDDE-5	Illicit discharge documentation.	Yes. All illicit discharges are investigated and documented. American Water reports any sanitary sewer overflows to Water Quality Program Manager and TCEQ. All SSOs are reviewed annually to evaluate trends.
2, IDDE-6	Engineering design review of new construction projects to ensure illicit cross connections are not designed; maintain design review comments with project folders.	Yes. Sanitary sewer piping schematics are reviewed to ensure illicit connections are not designed. Review and comments are maintained.
2, IDDE-7	Maintain existing illegal dumping and installation policy non- compliance enforcement procedures.	Yes. These enforcement procedures ensure there are consequences in place for non-compliant actions.
2, IDDE-8	Procedures for individual sewage systems.	Yes. This provides a management action plan for the identification and correction of any failing sewage systems.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
3, CON-1	Implement construction oversight program.	Yes. Semi-Annual inspections are conducted to monitor construction site BMP effectiveness. Sites are inspected for concrete washout containment, sediment control maintenance, proper hazardous material storage, and other BMPs material storage, and other BMPs.
3, CON-2	Provide construction stormwater management training to Construction QAEs.	Yes. Construction QAEs address, when applicable, stormwater issues on construction sites, preventing or correcting stormwater pollution activities.
3, CON-3	Review JBSA environmental specifications.	Yes. These specifications are reviewed and updated for all JBSA locations to ensure specific environmental protection requirements are addressed by the contractor. The aspects of a spill prevention and response plan are included in the contractor's SWPPP.
3, CON-4	Maintain existing environmental review process for proposed Federal Actions to identify projects requiring construction permit coverage.	Yes. This review and document disposition process ensures permits requirements are identified, enforced, and records are maintained.
3, CON-5	Maintain existing design review process and provide guidance for stormwater management activities.	Yes. This process ensures water quality personnel (and other environmental compliance areas) review all projects that may potentially impact JBSA.
3, CON-6	Maintain existing SWPPP review and comment procedures.	Yes. This review and document disposition process ensures CGP requirements are identified, enforced, and records are maintained.
3, CON-7	Ensure the use and maintenance of controls to prevent erosion and sediment runoff.	Yes. This promotes pollution prevention and awareness.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
4, PC-1	Maintain existing environmental review process for proposed Federal Actions and incorporate post-construction stormwater BMP guidance in initial project stages.	Yes. This review and document disposition process ensures permit requirements are identified, enforced, and records are maintained.
4, PC- 2	Maintain existing design review process and provide guidance for post construction stormwater BMPs.	Yes. This process ensures post-construction stormwater BMPs are implemented and managed accordingly.
4, PC-3	Visual inspection of post-construction BMPs and maintenance determination.	Yes. This review and inspection process ensures all post- construction structural BMPs are maintained.
4, PC-4	Maintain and update design and environmental specifications and recommend language for post-construction stormwater BMPs.	Yes. The specifications require the contractor to provide engineering plans, technical/product specifications, and Operation and Maintenance manuals for all storm water management structures.
4, PC-5	Include by Reference Air Force Civil Engineer Center Engineering Technical Letter 14-1 and Unified Facilities Criteria (UFC) 3-210-10 Low Impact Development in Design and Construction Contracts.	Yes. An annual review of these documents is conducted to ensure current standard constructions specifications are communicated to contractors before being awarded contracts. Low Impact Development are always included in the contracts, and recommendations are given for projects to reduce impact during construction.
4, PC-6	Review current and future programmed projects to evaluate compliance with post- construction BMP guidance.	Yes. These specifications are reviewed and updated for all JBSA locations annually, as necessary, to ensure specific environmental protection requirements are addressed by the contractor.
4, PC-7	Review Installation Design Guide.	Yes. This process ensures post-construction stormwater BMPs are implemented and managed accordingly.
4, PC-8	Maintain and operate structural BMPs for development and redevelopment projects.	Yes. This review and inspection process ensures all post- construction structural BMPs are maintained.
4, PC-9	Document and maintain records.	Yes. This process ensures post-construction stormwater BMPs are implemented and managed accordingly.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
5, P2-1	Conduct evaluation of industrial sites for compliance with Industrial Permit and SWPPP.	Yes. Quarterly Periodic and CSCI of industrial activities ensures BMP effectiveness to prevent pollution discharging to the MS4."
5, P2-2	MS4 Field Staff Training.	Yes. This training promotes pollution prevention and awareness.
5, P2-3	Street sweeping.	Yes. Sweeping streets prevents debris and sediment deposits from entering the storm drains.
5, P2-4	Airfield sediment and debris removal practices	Yes. Sweeping streets prevents debris and sediment deposits from entering the storm drains.
5, P2-5	Annual inspection of municipal storage areas.	Yes. This inspection provides an opportunity to identify potential pollution sources and, in the identification, investigation, and reduction of unauthorized discharges. During the Comprehensive Site Compliance Inspections, the municipal storage areas are inspected, and areas of improvement/corrective action are recorded. These areas of improvement are discussed with the facility managers to correct the issues.
5, P2-6	Distribute information regarding base recycling program.	Yes. Provided to the base populace in the base newspaper and during community outreach events, this information makes them aware of pollution prevention practices to protect water resources.
5, P2-7	Maintain Integrated Solid Waste Management Plan.	Yes. This plan provides standardized, approved management procedures for solid waste JBSA-wide.
5, P2-8	Maintain Integrated Pest Management Plan.	Yes. This plan provides standardized, approved management procedures for solid waste JBSA-wide.
5, P2-9	Conduct targeted training of golf course maintenance and grounds maintenance personnel.	Yes. Training has raised the level of storm water pollution prevention awareness for employees.
5, P2-10	Maintain Spill Prevention, Control, and Countermeasure Plan.	Yes. This plan provides standardized, approved procedures for spill prevention, control, and countermeasures Installation-wide.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
5, P2-11	Horse stable inspection.	Yes. This inspection provides an opportunity to identify potential pollution sources and, in the identification, investigation, and reduction of unauthorized discharges.
5, P2-12	Annual bacteria TMDL progress assessment.	Yes. This assessment process ensures permit requirements are identified, enforced, and records are maintained.
5, P2-13	Permittee-Owned Facilities and Control Inventory.	Yes. This assessment process ensures permit requirements are identified, enforced, and records are maintained.
5, P2-14	Evaluate O&M Activities for potential to Discharge Pollutants	Yes. O&M activities are evaluated for potential discharges.

3. Describe progress towards achieving the goal of reducing the discharge of pollutants to the MEP. If no progress was made or the BMP did not result in a reduction in pollutants, provide an explanation. Use the table below to meet this requirement (**see Example 2 in instructions**):

MCM	BMP	Information Used	Quantity	Units (Installation Wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1	PEO-1 Hazardous Waste Training	Training	Variable	Personnel Trained	Yes. Satellite accumulation point managers will be more aware of preventing unauthorized discharges, resulting in the reduction of pollutants.
1	PEO-2 Stormwater Awareness Materials for new installation housing occupants.	Welcome Packets	Variable	Brochures	Yes. Educating and informing the base housing occupants will contribute to reducing pollutants through raising awareness.
1	PEO-3 Publish stormwater/water quality related newsletter article.	Article	Base Populace	Newspapers	Yes. JBSA Legacy newspaper relays pertinent Storm Water Pollution Prevention information educating our military and civilians to prevent pollutants from discharging into the MS4.
1	PEO-4 Maintain Pet Waste Management	Welcome Packets	Variable	Brochures	Yes. Educating and informing the base housing occupants will contribute to reducing pollutants through raising awareness.
1	PEO-5 Sediment, Erosion, and Illicit Discharge Awareness Training	Training	Variable	Personnel Trained	Yes. Providing annual training significantly helps educate base personnel and contributes to a reduction in sediment, erosion, and illicit discharges to the MS4
1	PEO-6 Place SWMP on JBSA public internet site.	Plan and Reports	Variable	Personnel with Access	Yes. SWMP and MS4 Annual Report are available to base personnel for review. This information helps educate JBSA personnel to gain a better understanding in reducing pollution in storm water runoff.
1	PEO-7 Maintain Environmental Hotline.	Phone Calls	Variable	Calls Received	Yes. When storm water complaints are received, they are investigated and addressed.

MCM	BMP	Information Used	Quantity	Units (Installation Wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1	PEO-8 Maintain storm drain decals.	Outreach	Variable	Inspections	Yes. Decals provide a heightened sense of stormwater awareness throughout the community.
1	PEO-9 Public Education and Outreach	Outreach	Annually	Event	Yes. Public education and outreach events have been highly successful in actively promoting environmental stewardship by bringing awareness to military and civilians at JBSA.
1	PEO-10 Review standard contract specifications pertaining to hazardous waste and stormwater management.	Specifications	Variable	Reviews	Yes. Standard specifications are reviewed and applied in alignment with the approved stormwater program to promote awareness on ensuring permitted discharges only.
1	PEO-11 Provide sediment, erosion, and stormwater awareness training to facility managers.	Training	Variable	Personnel Trained	Yes. Program Manager Training has been highly successful in raising their level of awareness in reducing sediment and erosion at sites.
1	PEO-12 Installation-wide clean-up day.	Clean up	Annually	Events	Yes. Earth Day Event has been highly successful in engaging the military, residents, and civilians to participate in an installation wide cleanup day
1	PEO-13 Stormwater message on installation marquees.	Outreach	Annually	Event	Yes. Stormwater messages have been highly successful in actively promoting environmental stewardship by bringing awareness to military and civilians at JBSA.
1	PEO-14 Horse stable manure management awareness training.	Training	Variable	Personnel Trained	Yes. This Training has been highly successful in raising applicable personnel level of awareness in reducing release of manure pollutants at sites.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
2	IDDE-1 Update and maintain existing storm sewer system map	Maps	Annually	Reviews	Yes. A current map will assist when unauthorized discharges are observed so effective action can be taken to identify and resolve the source.
2	IDDE-2 MS4 Field Staff training	Training	Variable	Personnel Trained	Yes. MS4 Field Staff (Water Quality and CEO Infrastructure) will be more aware of pollution prevention practices and unauthorized discharge actions. If unauthorized discharges are observed, action can be taken to identify and resolve the source.
2	IDDE-3 Dry weather screening of all JBSA- LAK outfalls	Investigation Documentation	Annually	Inspection and Regulatory Requirement	Yes. This screening processes ensures applicable personnel can detect and eliminate any potential illicit discharges.
2	IDDE-4 Documentation	Investigation Documentation	Variable	Discharge Investigations	Yes. The project reviews will provide JBSA personnel the opportunity to identify and eliminate potential unauthorized discharges prior to construction. Documentation critical for findings and further investigations (if needed).
2	IDDE-5 Illicit discharge documentation	Construction Projects	Variable	Reviews	Yes. This review provides a comprehensive and holistic approach to understanding the potential pollutants that can be introduced into our stormwater conveyance systems.
2	IDDE-6 Engineering design review of new construction projects to ensure illicit cross connection are not designed	Construction Projects	Variable	Reviews	Yes. This review provides a comprehensive and holistic approach to understanding the potential pollutants that can be introduced into our stormwater conveyance systems.

MCM	BMP	Information Used	Quantity	Units (Installation Wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
2	IDDE-7 Maintain existing illegal dumping and installation policy non-compliance enforcement procedures	Septic Systems	Variable	Failing Systems	Yes. If a system is identified (none currently) that fails and an illicit discharge is detected and eliminated, the pollutant is reduced or removed.
2	IDDE-8 Procedures for individual sewage systems	Septic Systems	Variable	Reviews	Yes. This review provides a comprehensive and holistic approach to understanding the potential pollutants that can be introduced into our stormwater conveyance systems.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
3	CON-1 Implement construction oversight program	Construction Sites	Variable	Inspections	Yes. By inspecting construction sites, we can identify if BMPs are in place to reduce sediment discharge and erosion.
3	CON-2 Provide construction stormwater management training to Construction QAEs	Construction QAE Training	Variable	Personnel Trained	Yes. Construction QAE personnel will be more aware of CGP and SWPPP requirements. If illicit discharges are observed, action can be taken to identify and resolve the source.
3	CON-3 Review JBSA environmental specifications	Specifications	Variable	Review	Yes. This review provides a comprehensive and holistic approach to understanding the potential pollutants that can be introduced into our stormwater conveyance systems.
3	CON-4 NEPA Environmental Review Process	Environmental Impact Analysis Program	Variable	Reviews	Yes. The NEPA review of the projects will provide JBSA personnel the opportunity to identify and eliminate potential illicit discharges prior to construction.
3	CON-5 Design Review Process	Construction Plans	Variable	Reviews	Yes. The review of the CGP-required SWPPPs will ensure JBSA personnel are provided the opportunity to evaluate planned BMPs to reduce sediment discharge and erosion prior to construction.
3	CON-6 Maintain existing SWPPP review and comment procedures.	Construction Sites with CGP Coverage	Variable	Reviews	Yes. The review of the CGP-required SWPPPs will ensure JBSA personnel are provided the opportunity to evaluate planned BMPs to reduce sediment discharge and erosion prior to construction.
3	CON-7 Ensure the use and maintenance of controls to prevent erosion and sediment runoff.	Construction Sites with CGP Coverage	Variable	Reviews	Yes. This review process ensures CGP requirements are identified and enforced with regards to Erosion and Sediment controls.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
4	PC-1 Environmental review process for proposed Federal Actions and incorporate post-construction stormwater BMP guidance	Projects	Variable	Reviews	Yes. The reduction in pollutants will be reduced over time as the permanent post- construction BMPs are utilized.
4	PC-2 Maintain existing design review process and provide guidance for post-construction stormwater BMPs	Projects	Variable	Reviews	Yes. Maintaining structural BMPs and stabilization measures will reduce the risk for an unauthorized stormwater discharge.
4	PC-3 Visual inspection of post-construction BMPs and maintenance determination	BMP Inventory	Variable	Inspections	Yes. The inspection of all BMPs and any maintenance required of the post- construction BMPs will ensure sediment discharge and erosion does not occur.
4	PC-4 Maintain and update design and environmental specifications and recommend language for post-construction stormwater BMPs.	Specifications	Once	Review	Yes. This review will push contractors, conducting business within JBSA jurisdiction, to exceed compliance expectations with post- construction BMP requirements.
4	PC-5 Review of standard design and construction specifications	Specifications	Once	Review	Yes. Reviewing the UFC guidance to ensure JBSA specifications are current will reduce pollutants over time as BMP Requirements are established and maintained.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
4	PC-6 Review current and future programmed projects to evaluate compliance with post-construction BMP guidance	Construction Plans/Projects	Variable	Inspection	Yes. Maintaining structural BMPs and stabilization measures will reduce the risk for an unauthorized stormwater discharge.
4	PC-7 Review Installation Design Guide	Construction Plans/Projects	Variable	Inspection	Yes. Verifying the integrity of structural BMPs are vital to ensuring JBSA and Regulatory environmental Compliance.
4	PC-8 Maintain and operate structural BMPs for development and redevelopment projects.	Construction Plans/Projects	Variable	Inspection	Yes. The inspection of all BMPs and any maintenance required of the post- construction BMPs will ensure unauthorized discharges and erosion does not occur.
4	PC-9 Document and maintain records	Construction Plans/Projects	Variable	Documentation	Yes. Maintaining document control over this process is critical for ensuring regulatory compliance.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
5	P2-1 Conduct evaluation of industrial sites for compliance with Industrial Permit and SWPPP	MSGP, SWPPP	Quarterly and Annually	Inspection	Yes. By inspecting industrial sites during an annual Comprehensive Site Compliance Inspection (CSCI), and Quarterly Periodic Inspections Water Quality Program Managers can identify if BMPs are in place to reduce sediment discharge and erosion and prevent pollutant discharge.
5	P2-2 MS-4 Field Staff Training	Training	Variable	Personnel Trained	Yes. Onsite materials management: raising awareness on employees to better manage materials from being mobilized in suspension through stormwater runoff events.
5	P2-3 Street Sweeping	Curbed Streets	Daily	Personnel Trained	Yes. Street sweeping contains contaminants such as sediment accumulation, POL residuals, and loose trash/debris.
5	P2-4 Airfield Sediment and Debris Removal	Airfield	Daily	Personnel Trained	Yes. Removing sediment and debris from the airfield prevents them from entering the storm drains.
5	P2-5 Annual inspection of municipal storage areas.	MS4, SWMP	Annually	Inspections	Yes. By inspecting municipal areas annually, Water Quality Program Managers can identify if BMPs are in place to reduce sediment discharge and erosion and prevent pollutant discharge.
5	P2-6 Distribute information regarding base recycling program	Article Outreach	Base Populace	Newspapers	Yes. Open House for Recycling Centers helps enlighten the base population of various environmental pollutants will lead to pollution reduction in the future.
5	P2-7 Integrated Solid Waste Management Plan	Plan	Variable	Review	Yes. Ensuring the most current solid waste management policies and procedures are in place will lead to pollution reduction in the future.

MCM	BMP	Information Used	Quantity	Units (Installation - wide)	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
5	P2-8 Integrated Pest Management Plan	Plan	Variable	Review	Yes. Ensuring the most current pest management policies and procedures are in place will lead to continuous pollution reduction.
5	P2-9 Golf Course/Grounds Maintenance Training	Training	Variable	Personnel Trained	Yes. Personnel will be more aware of pollution prevention practices and illicit discharge actions. If illicit discharges are observed, action can be taken to identify and resolve the source.
5	P2-10 Spill Prevention, Control, and Countermeasures (SPCC) Plan	Plan	Monthly	Review	Yes. Ensuring the most current SPCC policies and procedures are in place will promote a sustainable management system to exceed SPCC compliance.
5	P2-11 Horse stable inspection	Training and Exercise	Variable	Personnel Trained	Yes. Personnel who work in industrial areas will be more aware of pollution prevention practices and illicit discharge actions. If illicit discharges are observed, action can be taken to identify and resolve the source.
5	P2-12 Annual bacteria TMDL progress assessment.	Investigation Documentation	Annually	Inspections	Yes. Dry Weather Field Screenings are a process step that documents if there are any exceedances that would require a TDML.
5	P2-13 Permittee-Owned Facilities and Control Inventory	Investigation Documentation	Variable	Review and Documentation	Yes. 813 reviews these with NEPA and are reviewed through the NEPA process and for any type of construction projects that are going on. Any type of projects that need the Water Quality Program review they review it. The Water Quality Program Managers can put in work tasks for anything identified in the field as a finding that needs to be improved.
5	P2-14 Evaluate O&M Activities for potential to Discharge Pollutants	Investigation Documentation	Variable	Inspection	Yes. During the inspection the team can identify if BMPs are in place to reduce sediment discharge and erosion and prevent pollutant discharge.

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (**see Example 3 in instructions**):

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
1, PEO-1	Provide training at least annually to 100% of satellite accumulation point managers and perform quarterly inspections of satellite accumulation points.	All hazardous waste generators are required to complete either the JBSA HW RCRA Training available through AF My Learning Site, or face to face training by the hazardous waste team.
1, PEO-2	Provide stormwater awareness information as part of the housing Resident Guides, to 100% of new residents.	Stormwater awareness brochures are available for base newcomers at the housing office.
1, PEO-3	Publish one stormwater protection related article per year.	Basura Bash is a San Antonio city wide day where the communities come out to clean up the creeks and rivers. This in turn prevents pollutants from entering the surface water. A stormwater related article was published in the base newspaper and the public website. There is a street marquee that posts catchy water quality slogans for passersby to read.
1, PEO-4	Maintain pet waste management policy for housing occupants.	Pet waste awareness brochures are available for base newcomers at the housing office.
1, PEO-5	Provide training at least annually to 100% of SWPPT members.	Water Quality Program Managers provide training for construction project managers to educate them on sediment tracking offsite and runoff from construction spoils piles.
1, PEO-6	Place SWMP and MS4 Annual Reports on JBSA.mil.	Yes, after the reports are signed and submitted to TCEQ; the signed versions are stored on eDASH, which is an online data storage for record keeping.
1, PEO-7	Maintain hotline phone number and document 100% of calls and actions taken.	An emergency phone line is maintained by the Fire Department. Calls relating to spills are reported.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
1, PWO-8	Maintain storm drain decals on 50% of storm drain inlets and document locations of new and replaced decals.	JBSA maintains storm drain decals installation wide on a practical case-by-case basis.
1, PEO-9	Conduct one community outreach event per year to promote environmental stewardship. Provide number of stormwater related outreach materials distributed.	Two (2) Conducted: 1. Basura Bash is held annually and is a city-wide day to clean up the creeks and rivers. 2. Earth Day is observed annual which provides an opportunity for those working and living at the installation to participate in an installation wide clean up event.
1, PEO-10	Review and update JBSA standard design and construction specifications. Maintain documentation of annual review and 100% of comments provided to contracting agents.	JBSA maintains a construction handbook that can be used by the project managers that contains specifications on how to manage various aspects on the construction site pertaining to stormwater and hazardous waste.
1, PEO-11	1. Review and update Facility Manager Training Program to include sediment, erosion, and stormwater awareness training. 2. Provide training at least once per year to 100% of facility managers and maintain attendance record.	The awareness training has been added to the Facility Manager Training Program. Sediment and erosion awareness will also be included in the training distributed to all the responsible parties. There is sediment and erosion awareness training available on TEACH for anyone that is required to have this training.
1, PEO-12	Perform annual installation wide clean-up. Document date of clean-up day and number of participants.	Earth Day event ensures each building has their day of clean up where trash is picked up.
1, PEO-13	At least once per year, advertise stormwater awareness message on installation marquee and document dates and message.	JBSA maintains storm drain decals installation wide on a practical case-by-case basis.
1, PEO-14	Provide annual stormwater and Manure Management Awareness training to horse stable manager and document number of staff trained.	Applicable training is provided and logged for applicable Horse Stable personnel.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2, IDDE-1	Conduct annual review of the MS4 map and make required updates	The existing storm sewer system map was reviewed and updated. The map is maintained with the project managers.
2, IDDE-2	Perform training of MS4 Field Staff concerning illicit discharge detection and elimination.	JBSA team is in the process of updating the training for illicit discharge detection and elimination.
2, IDDE-3	Conduct annual dry weather screening of all MS4 outfalls.	Dry weather screens are conducted to determine if there are any unauthorized discharges. During site inspections the outfalls are inspected to ensure there are no unauthorized discharges.
2, IDDE-4	Maintain copies of U.S. EPA Illicit Discharge and Elimination Manual for implementing Illicit Discharge Detection and Elimination (IDDE) Procedures.	Copies are maintained by the Water Quality Program Managers.
2, IDDE-5	<ol style="list-style-type: none"> 1. Document all illicit discharge identification, investigation, and elimination activities. Report sanitary sewer overflows to Water Quality Program Manager. 2. Annually review sanitary sewer overflows and evaluate trends. 	Dry weather screens are conducted to determine if there are any unauthorized discharges. During site inspections the outfalls are inspected to ensure there are no unauthorized discharges.
2, IDDE-6	Follow design review process and maintain 100% of comments with project folders.	New construction projects are reviewed, and specifications are given to the Water Quality Program Managers. They work with construction project managers to ensure they do not construct anything that may cause unauthorized stormwater cross connections.
2, IDDE-7	Document all reported discharges and enforcement actions taken.	Procedures are maintained to prevent illegal dumping. Spill records are maintained, and investigations are set in motion when something is found, such as spills or dumping.
2, IDDE-8	Prevent individual sewage disposal systems at JBSA-LAK from failing. Document annual inspections of all systems and corrective action plan for any failing systems identified.	Procedures are maintained by a joint effort between JBSA Water Quality Program Managers and American Waters for individual sewage systems with a goal of no failing. Sections are replaced on an as needed basis for failed sewage systems. Failed sewage sections are replaced quickly. The action plan is maintained efficiently.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
3, CON-1	Perform inspection of all active CGP permitted construction sites on JBSA-LAK at least once or twice per year, as required.	Construction project managers manage the inspections and document any deficiencies and corrective actions.
3, CON-2	Ensure annual training of all Construction QAEs and maintain training materials and attendance roster.	Stormwater management training is provided to the Construction QAEs. The Water Quality Program Manager maintains a sign in sheet with signatures and dates of training.
3, CON-3	Perform annual review of standard design and construction specifications. Maintain documentation of annual review and 100% of comments provided to contracting agents.	The construction specifications handbook is reviewed annually to see if any updates are needed. The handbook includes how to prepare a spill prevention and response plan. Spill Prevention and Response Plan is incorporated into the construction contractors SWPPP.
3, CON-4	Maintain completed Air Force Form 332, 813, 1391 and Environmental Assessments/Environmental Impact Statements with project folders.	Yes, the NEPA program managers maintain the existing environmental review process for proposed Federal Actions to identify projects requiring permit coverage.
3, CON-5	Engineering Flight Chiefs maintain existing design review process and provides guidance for stormwater management activities.	Yes, the construction specifications handbook has the guidance in it.
3, CON-6	Maintain existing SWPPP review and comment procedures; document SWPPP review and comments provided to CE Construction Managers.	Yes, the SWPPP for construction projects are reviewed by the environmental team and edits and comments are completed.
3, CON-7	Visually inspect all construction sites to ensure installation and maintenance of controls.	Yes, construction sites are inspected to ensure controls are in place and functioning properly.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
4, PC-1	NEPA Coordinator maintains existing environmental review process for proposed Federal Actions and incorporates post-construction stormwater BMP guidance in initial project stages; maintains completed Air Force Forms 332, 813, 1391 and EAs/EISs with project folders.	NEPA Coordinator maintains existing environmental review process for proposed Federal Actions and incorporates post-construction stormwater BMP guidance in initial project stages; maintains completed Air Force Forms 332, 813, 1391 and EAs/EISs with project folders.
4, PC-2	Engineering Flight Chief maintains existing design review process and provides guidance for post- construction stormwater BMPs; review current and future programmed projects to evaluate compliance with post-construction BMP guidance; Water Quality Program Manager and Program Flight Chief will meet at least annually to discuss upcoming development and redevelopment projects to identify post-construction stormwater BMP implementation.	The Engineering Flight Chief is responsible for post- construction stormwater BMPs and that the criteria should be met before leaving the site. The Engineering Flight Chiefs go back to the site to make sure that the post-construction BMPs are still in effect. The training provided to the construction teams include BMPs and how to effectively manage them.
4, PC-3	<ol style="list-style-type: none"> 1. Perform annual review and update of the structural post-construction inventory. 2. Perform visual inspection of post-construction BMPs at least annually. 3. Initiate BMP maintenance based on inspection results and document dates when maintenance is accomplished. 	Periodic inspections are conducted by JBSA Environmental Personnel.
4, PC-4	Maintain and update JBSA standard design and construction specifications at least annually and recommend language for post-construction stormwater BMPs; maintain documentation of annual review and comments.	The construction specifications handbook is reviewed annually to see if any updates are needed. The handbook includes post-construction stormwater BMPs.
4, PC-5	Perform annual review of standard design and construction specifications to ensure DoD and Air Force guidelines for post-construction stormwater controls are met, including ETL and UFC guidelines. Maintain documentation of annual review and 100% of comments provided to contracting agents.	Low Impact Development is always included in the contracts. Recommendations are given for projects to reduce impact during construction.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
4, PC-6	The Water Quality Program Manager and Program Flight Chief will meet at least annually to discuss upcoming development and redevelopment projects to identify post-construction stormwater BMP implementation.	Construction project managers document the BMP inspections and acceptance procedures. Training is provided to the construction project managers by the Water Quality Program Manager to ensure that the inspections are conducted properly.
4, PC-7	Review municipal stormwater management control goals in the JBSA Design Guide. Maintain copy of updated Design Guide.	These specifications are reviewed and updated for all JBSA locations annually, as necessary, to ensure specific environmental protection requirements are addressed by the contractor.
4, PC-8	Conduct visual inspections at 100% of development and redevelopment construction sites to ensure effectiveness of structural BMPs.	Integrity of structural BMP's are inspected during the 3, CON-7 (MCM) periodic inspection process and the during post closure process.
4, PC-9	The Water Quality Manager will conduct records review to ensure all documentation is available for at least 3 years after the termination of coverage.	Construction Contractors have applicable TCEQ-CGP documentation available for review upon JBSA request.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
5, P2-1	Conduct evaluation of industrial sites for compliance with MSGP and SWPPP; document annual evaluation.	Annual and Quarterly inspections are conducted, documented, and the reports are maintained for the industrial sites to ensure compliance with MSGP.
5, P2-2	Conduct MS4 Field Staff training at least once per year and maintain attendance roster.	MS4 field staff training is provided for all responsible parties.
5, P2-3	Perform at least 10 hours of street sweeping per month; maintain log of hours spent street sweeping.	CE Operations has a sweeper that is prepared to become activated at any point of operations. The log of hours is maintained by CE Operations.
5, P2-4	Document airfield cleaning operations.	Airfield cleaning operations are documented.
5, P2-5	Annual inspection of municipal storage areas; document inspection, areas of improvement, and corrective actions.	During the Comprehensive Site Compliance Inspections, the municipal storage areas, are inspected and areas of improvement/corrective action are recorded. These areas of improvement are discussed with the facility managers to correct the issues.
5, P2-6	Recycling Manager distributes information regarding base recycling program; maintain copies of information provided to base populace.	The Recycling Program is very active in distributing information about the program and how to recycle the best way.
5, P2-7	Maintain copy of Integrated Solid Waste Management Plan.	A copy of the Integrated Solid Waste Management Plan is maintained.
5, P2-8	Maintain copy of Integrated Pest Management Plan.	A copy of the Integrated Pest Management Plan.
5, P2-9	Conduct annual targeted training of golf course maintenance and grounds maintenance personnel; maintain attendance roster.	Golf course maintenance and grounds Maintenance staff are provided training for their activities. Sign in sheet is maintained.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
5, P2-10	Maintain copy of Spill Prevention, Control, and Countermeasure (SPCC) Plan.	The JBSA-LAK Tanks Team maintains the SPCC Plan.
5, P2-11	Document annual inspection, areas of improvement, and corrective actions taken.	The JBSA-LAK Tanks Team is responsible for conducting SPCC training.
5, P2-12	Perform and document annual TMDL progress assessment.	TMDL assessments are performed and documented under the regulatory requirements of the TCEQ's MSGP.
5, P2-13	Document annual review and 100% of updates to the Permittee-Owned Facility and Control Inventory.	Annual and Quarterly inspections are conducted, documented, and the reports are maintained for the Permittee-Owned Facilities to ensure compliance with MSGP and SWPPP.
5, P2-14	Perform annual review of standard design and construction specifications and update, if necessary. Maintain documentation of annual review and 100% of comments provided to contracting agents.	Environmental review/inspection process is coordinated with applicable operation personnel. Design and specifications are reviewed by JBSA during the pre-construction submittal phase.

C. Stormwater Data Summary

Provide a summary of all information used, including any lab results (if sampling was conducted) to assess the success of the SWMP at reducing the discharge of pollutants to the MEP. For example, did the MS4 conduct visual inspections, clean the inlets, look for illicit discharge, clean streets, look for flow during dry weather, etc.?

This section provides a summary of all information used including any lab results (if sampling was conducted) to assess the success of the SWMP at reducing the discharge of pollutants to the Maximum Extent Practicable (MEP). JBSA-LAK has conducted monitoring of stormwater quality at five outfalls which receive stormwater from areas with industrial activities. The results of the visual monitoring and annual sampling/analysis have shown that the stormwater discharges to inland waters as described in TXR0500000, as shown below, are below regulatory limits. During quarterly visual monitoring, if stormwater inlets and outfalls required cleaning, they were identified to operations personnel. Also, any potential illicit discharges were identified and investigated. Dry weather field screenings were conducted for all outfalls to detect any potential illicit discharges.

Pollutant	Permit Limit (mg/L)	003 (mg/L)	003K (mg/L)	004 (mg/L)	007 (mg/L)	008K (mg/L)
Arsenic	0.3	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	4.0	0.057	0.012	0.082	0.021	0.024
Cadmium	0.2	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	5.0	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	2.0	<0.006	0.003	0.003	0.030	0.011
Lead	1.5	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	3.0	0.002	0.053	0.001	0.006	0.005
Mercury	0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	3.0	0.002	<0.001	0.002	0.002	0.001
Selenium	0.2	0.001	<0.001	0.001	<0.001	<0.001
Silver	0.2	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	6.0	0.024	0.036	0.027	0.042	0.035
Visible Pollutants (Quarterly)		Solids	Solids	Solids	Solids	Solids

D. Impaired Waterbodies

- a. Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). List any newly identified impaired waters below by including the name of the water body and the cause of impairment.

No Impaired Waterbodies are found within the permitted area according to the 2022 Texas Integrated Report - Index of Water Quality Impairments

- b. If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern.

N/A

- c. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL.

Benchmark monitoring via sampling and laboratory analysis will determine if there are any pollutants that would possibly flow to the impaired water body. There are currently no TMDLs for Lower Leon Creek.

- d. Report the benchmark identified by the MS4 and assessment activities:

Benchmark Parameter (Ex: Total Suspended Solids)	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
N/A			

e. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark:

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
N/A		

f. If applicable, report on focused BMPs to address impairment for bacteria:

Description of bacteria-focused BMP	Comments/Discussion
N/A	

g. Assess the progress to determine BMP's effectiveness in achieving the benchmark.

For example, the MS4 may use the following benchmark indicators:

- number of sources identified or eliminated;
- number of illegal dumpings;
- increase in illegal dumping reported;
- number of educational opportunities conducted;
- reductions in sanitary sewer flows (SSOs); /or
- increase in illegal discharge detection through dry screening.

Benchmark Indicator	Description/Comments
N/A	

E. Stormwater Activities

Describe activities planned for the next reporting year:

MCM(s)	BMP	Stormwater Activity	Description/Comments
N/A			

F. SWMP Modifications

a. The SWMP and MCM implementation procedures are reviewed each year.

☒ Yes ☐ No

b. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

☐ Yes ☒ No

If "Yes," report on changes made to measurable goals and BMPs:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
N/A		

Note: If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible, and why the replacement BMP is expected to achieve the goals of the original BMP.

c. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land, etc.).

G. Additional BMPs for TMDLs and I-Plans

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

BMP	Description	Implementation Schedule (start date, etc.)	Status/Completion Date (completed, in progress, not started)
N/A			

H. Additional Information

a. Is the permittee relying on another entity to satisfy any permit obligations?

☐ Yes ☒ No

If "Yes," provide the name(s) of other entities and an explanation of their responsibilities (add more spaces or pages if needed).

Name and Explanation:

2.c. Is the permittee part of a group sharing a SWMP with other entities?

☐ Yes ☒ No

2.d. If "yes," is this a system-wide annual report including information for all permittees?

☐ Yes ☐ No

If "Yes," list all associated authorization numbers, permittee names, and SWMP responsibilities of each member (add additional spaces or pages if needed):

Authorization Number: _____ Permittee: _____

Authorization Number: _____ Permittee: _____

Authorization Number: _____ Permittee: _____

Authorization Number: _____ Permittee: _____

I. Construction Activities

a. The number of construction activities that occurred in the jurisdictional area of the MS4 (Large and Small Site Notices submitted by construction site operators):

Six (6) Large Construction Projects

2a. Does the permittee utilize the optional seventh MCM related to construction?

☐ Yes ☒ No

2b. If "yes," then provide the following information for this permit year:

The number of municipal construction activities authorized under this general permit	
N/A	

Note: Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.

J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

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.

Name (printed): Keith Kellner, P.E Title: Director, 802nd Civil Engineer Squadron

Signature:  Date: 26 MAR 2024

Name of MS4 JBSA-Lackland TXR040068

If you have questions on how to fill out this form or about the Stormwater Permitting program, please contact us at 512-239-4671.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.