



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

January 7, 2013

Mr. Mark Mays
88 ABW/CEA
1450 Littrell Road, Building 22
Wright Patterson Air Force Base, Ohio 45433-5209

**RE: RECONNAISSANCE INSPECTION, Wright Patterson Air Force Base
(WPAFB), Permit Number 11O00001*ED, and 11N00156*ED**

Dear Mr. Mays:

On December 10, 2012, a Reconnaissance Inspection of the storm water system at WPAFB, Greene and Montgomery Counties was performed. The inspection was conducted as part of the National Pollutant Discharge Elimination System (NPDES) permit compliance review for the facility.

The inspection report is attached for your review. There are two items that require a response. Please provide a written response by the dates noted. If you have any questions regarding the report, please feel free to contact Mr. Reynolds at (937) 285-6097.

Sincerely,

A handwritten signature in blue ink, which appears to read "Martyn Burt".

Martyn Burt
Environmental Supervisor
Division of Surface Water

MB/tb

cc: Zachary Olds, WPAFB
Emily Erdei, WPAFB



State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

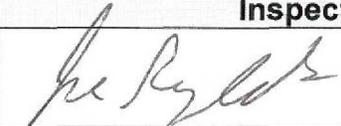
Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1IO00001*ED	OH0010243	12/10/2012	R	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Department of the Air Force 88 ABW/CEV 1450 Littrell Road, Building 22 Wright Patterson AFB, Ohio 45433 - 5209	9:00AM	4/1/2011
	Exit Time	Permit Expiration Date
	12:10PM	9/30/2014
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Zack Olds and Emily Erdei	(937) 257 - 9009	
Name, Address and Title of Responsible Official	Phone Number	
Mark Mays, Chief Assets Management Division 88 ABW/CEA 1450 Littrell Road, Building 22 Wright Patterson AFB, Ohio 45433 - 5209		

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
N	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

See attached report.

Inspector	Reviewer
 4/2/13	 1/7/13
Joe Reynolds Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

WPAFB Inspection Findings

WPAFB has two individual National Pollutant Discharge Elimination System (NPDES) permits. Permit number 11O00001 is for storm water discharges from various areas on the base (coal fired power plants, ramp and runway areas, scrap and demo yards, testing labs and offices, and an aircraft survivability test area). WPAFB also holds NPDES permit number 11N00156 for a ground water pump and treat system located near landfill 5.

During today's Reconnaissance Inspection, we stopped by the following outfalls: 003, 005, 007, 013, 014, 017, 018, 021, 022 and 023. These outfalls have individual monitoring requirements due to a higher potential for storm water exposure to pollutants. Other storm water outfalls covered by the permit include: 001, 002, 004, 006, 008, 009, 010, 011, 012, 015, 016, 019 and 020.

WPAFB has completed the installation of automatic samplers at most of the outfalls with monthly monitoring. The samplers will be activated by rain gauges located on the sampler. The gauge will notify the sampler when one tenth of an inch of rain is gathered. The sampler will then be set to activate, at a delayed time if necessary, to collect the first flush.

The city of Fairborn is currently working on a sewer interceptor project. As part of the project, the City is bypass pumping. Temporary sewer lines were installed in the Huffman Prairie area of the base. This work has created several areas of disturbed soil, as well as stream bank disturbance along Trout Creek.

During the inspection, it was noted that there is a common discharge point (through Hebble Creek) from the base that collects storm water drainage from several outfalls. A question was raised concerning the possibility of combining outfalls to make one sampling point prior to this discharge point. In review of the permitted outfalls that would contribute to this point, the majority have already been delegated to the Parts IV, V, and VI requirements of the permit. This part of the permit contains a matrix which requires annual monitoring based upon certain activities and SIC codes. In lieu of the annual monitoring, WPAFB can certify that there are no industrial exposures associated with a particular outfall. This office feels the remaining outfalls which have routine sampling requirements are different enough (monitoring for different constituents) to warrant maintaining samples at the individual outfalls. The agency would be willing to entertain a reduction in the number of parameters being monitored and / or frequency of monitoring with appropriate justification.

WPAFB Inspection Findings (continued)

At the time of the inspection, a brownish white discharge was coming from outfall 008. A noticeable plume, possibly sediment, was being discharged through the outfall. The stream was clear.

Between January 1, 2011 and November 1, 2012, WPAFB reported 30 code and 24 frequency violations. The majority of the code violations were associated with flooded sampling sites.

Facility Inspection

Outfall 017 receives storm drainage from the flight line and fuel farm drainage (Petroleum, Oil, and Lubricants (POL area)). This sampling point is at a road culvert (corrugated, approx. 72"). The creek water was clear. There were no sheens, foam, or sediment noted. A small amount of white shells and woody debris was noted just downstream. There is an automatic sampler and outfall sign at this location. Due to low flow conditions, manual grabs have been used to sample the outfall.

Outfall 018, West Ramp Fueling and Deicing. This ramp is where the plane deicing occurs. The ramp is sloped to isolate storm water from the deicing part of the ramp. Storm water is directed to a trench drain and ultimately to Bass Lake. Deicing chemicals are vacuumed up. An old oil water separator was removed from the drainage system during the summer 2012. The water at outfall 018 was clear. No scum or odor was noted. An outfall sign was located along the path that leads over to this outfall. An automatic sampler has been installed to collect samples.

Outfall 022, Coal Piles Area B (Building 20774). This outfall includes a storage and treatment system for storm water that contacts the coal piles. Concrete basins are used to store storm water (10 year, 24 hour storm). This water is then run through a pH adjustment, polymer feed, oil water separator, and filter press treatment system prior to discharge. Plans to expand the storage volume were placed on hold while the base evaluates switching to natural gas boilers. There was no effluent at the time of the inspection. The effluent channel had a minor amount of black solids.

WPAFB Inspection Findings (continued)

Outfall 003, East Central Section Area B, includes offices and testing labs. An automatic sampler located on base property collects samples prior to the outfall. The outfall is located across Springfield Street and rail road tracks. The water column at the outfall was clear. The stream bottom contained natural sediment deposits and vegetative debris. Previously, there was impacted sediment noted from construction activities.

Outfall 013, East Ramp Fueling and Aircraft Maintenance. The creek water was clear. No sheens, foam, or sediment deposits. The creek bottom is gravel with attached algae on the rocks. An automatic sampler was installed at this site early in the year, 2012. An outfall sign has been installed.

Outfall 007, C.E. Scrap Yard and Non-Contact Cooling Water (Headquarters Building 10262). The scrap yard is located on old landfill number 4. There are no drains in the scrap yard. The drainage travels by overland flow to a storm pipe. Outfall 007 is a 36" concrete tile located across the road. The tile was recently repaired and woody vegetation was removed from around the outfall. A new concrete sampler pad and sampler have been installed. The effluent appeared clear. The creek was slightly turbid. The creek bottom had a moderate amount of sediment. There is an outfall sign near the outfall.

Outfall 005, DRMO Scrap Yard. The creek water was clear. Some deposits of grey sediment were noted. There were no sheens, foam, or odors. During the previous inspection a smell of fuel was noted in the area. An automatic sampler and sign are located at this outfall.

Outfall 021, Coal Pile Run-Off (Building 31240, near route 444). The site is set up to collect drainage from the coal storage areas. There is a treatment system that is used to settle solids (two concrete tanks, most of the solids settle in the first tank). The treatment system is under contract operations. As effluent suspended solids levels increase a polymer is added to the waste water to help with settling. The system is manually discharged to the swale next to Route 444. The outlet pipe had a small pool of clear water. The grass swale was dry. Black staining noted during the last inspection was no longer present. The area is on a priority list for cleaning. The amount of coal finds on the ground near the shaker house has been greatly reduced compared to the last inspection. The outfall sign is on the inside of a fenced area by the outfall. Since Route 444 has been closed to the general public, there is no longer a need to move the sign to the other side of the fence.

WPAFB Inspection Findings (continued)

Outfall 023, Aircraft Survivability Test Area. This outfall is located in a storm basin down the hill from the test area on base. Activities in this area are significantly reduced. They are moving the testing activities to California in October. In the summer of 2012, fiberglass pillows with activated carbon were added to the inlet structures as a precautionary treatment system. The water in the basin was clear. No sheens, foam or odors. There is an automatic sampler located at this outfall. Samples are collected prior to tie-in to the storm sewer system tributary to outfall 003.

Items Requiring a Response

Please provide an update as to the findings of any investigations into the source of the sediment being discharged through outfall 008 at the time of this inspection. A brief written response detailing the findings of your investigation and any proposed corrective actions must be submitted to this office no later than February 11, 2013.

Please provide a written update detailing the status of the city of Fairborn sewer interceptor project. This update should include any corrective measures taken to eliminate sediment run-off from exposed soils in the project area. This update must be submitted to this office no later than February 11, 2013.