

ANNE ARUNDEL COUNTY

Department of Public Works

Inter-Office Correspondence

DATE: January 31, 2018
TO: File
FROM: Jerome Napora
RE: SWPPP Team Review (Annual Report and Quarterly Inspection)

The following Cox Creek Stormwater Prevention Team Members listed below met and reviewed Annual Report Wet Weather and Routine Inspection Reports.

- | | |
|---------------------------------|------------------------------------|
| 1) Ronald Clark – WW Tech II | 2) Mark Bois – WW Tech II |
| 3) Marcus Allen – WW Tech I | 4) Bernard Williams – Team Manager |
| 5) Jerome Napora – Team Manager | 6) Tony Poleski – WW Tech I |
| 7) Maurice Mack – WW Tech I | |

Listed below is Summary of Discussion and Comments related to Annual Report and Review of Quarterly SWPPP Inspection Report.

Annual Report:

A. General Inspection:

- 1) Plant's under major construction ENR Phase II and non ENR contracts. The contractor "PC Construction" has installed silt fence stone and filter cloth bags in catch basins for stormwater protection.
- 2) No new outfall identified. New SWPPP will be developed after completion of ENR Phase II upgrade.
- 3) No new source of stormwater discharged identify in Annual Inspection.
- 4) Describe pollutants entering drainage system: Dust and sand entering catch basin due to construction at site all roads are in poor condition. The contractor has installed filter cloth bags with witch caps in catch basins. Filter cloth bags are routinely inspected by contractor and clean or replaced as needed.

5) No action being taken since last annual report.

B. Industrial Activity Area Specific Findings:

- 1) Bio-Solids Building – Team review One Line Spill Policy action plan. The catch basin located outside building drains to County system and does not discharge to an outfall.
- 2) Generators – Four (4) new generators on site and in service. All four (4) have Belly are operational.
- 3) Electrical Transformers – No issues. At the end of ENR Phase II contract transform behind Admin. Building will be removed. (Only Admin & Secondary building).
- 4) Poylmer Building – Building demoed under ENR Phase II contract.
- 5) Ferric Chloride Storage Tanks – Containment area clean and tank in fair shape/no leakage. Under ENR Phase II storage tanks have been replaced.
- 6) Headworks Building – Control measures in place.
- 7) Maintenance Building – New location at lower end of facility. Two (2) new rain gardens were installed for site. Add rain garden to quarterly inspection.
- 8) Administration Building – Area under construction storm water prevention measures in place.
- 9) Chemical Storage Area – All control measure in place.
- 10) Scum Construction Area – Entire area under construction, contractors has stormwater devices in place.
- 11) Gravity, Thickeners – Entire area under construction, old digester #2 has been converted to thickener #4.
- 12) Sodium Hydroxide – All control measures in place.
- 13) Clarifier(s) – All equipment operational and in service. No problems or maintenance required. (Three (3) primaries out of service for Process Control)
- 14) Aeration Tank – Aeration basin 3 & 4 – out of service for ENR upgrade. Entire area under construction, contractor has installed stormwater control measures.
- 15) Septage – No issues or problems. Septage is a contained area; any spill on black top is captured and drained back to County system for processing.
- 16) Grease Receiving – System demoed ENR Phase II to make room for new scum equipment.
- 17) Post Chlorinator Cylinder Area – No issues to report. Cylinder and equipment stored in Lock Building. New Hypo Building under construction.
- 18) Digester Building – No issue – digester out of service, building is used for storage of equipment.
- 19) Grit Receiving Station – Demoed to make room for new membrane facility.
- 20) Grease and Scum Station – Demoed.
- 21) Sludge Pump Station – System out of service. Circular Primary, demoed to make room for membrane facility.

D. Corrective Actions: No corrective action performed or problem addressed.

E. Annual Report Certification: Permit in compliance.

SWPPP: Team Members Reviewed and Discussed each Section of Plan

A. Routine Inspection Reports:

Once a quarter perform site assessment performed. When filling out check list, note present condition. Example: Rain Garden behind headworks demoed ENR Phase II so new underground electrical conduit can be installed. The facility is under major construction and to note change to Inspection Report.

B. Wet Weather:

Once a quarter perform site assessment of outfalls for facility. Collect sample in glass becker and follow instruction. Note: Several out-fall demo to make room for new tanks/equipment ENR Phase II.

C. Storm Waste Devices:

Once a quarter perform inspection of Rain Garden(s). Note infiltration trench demoed as part of ENR Phase II upgrades. Trench will be reinstalled at a later date.

D. Annual Report Form:

Annual complete EPA annual report.



Annual Reporting Form

A. GENERAL INFORMATION

1. Facility Name: Cox Creek WRF

2. NPDES Permit Tracking No.: MD-0021661

3. Facility Physical Address:

a. Street: 8866 Wagner Station Road

b. City: Curtis Bay c. State: MD d. Zip Code: 21226

4. Lead Inspectors Name: Jerome Napora Title: TEAM MANAGER

Additional Inspectors Name(s):

5. Contact Person: Jerome Napora Title: TEAM MANAGER

Phone: 410-422-6060 Ext. E-mail: PNAPORA2@ARCOUNTY.ORG

6. Inspection Date: 01/05/2018

B. GENERAL INSPECTION FINDINGS

1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?
 YES NO

If NO, describe why not:

Facility under construction for ENR improvements.
 Contracts: A) ENR phase II
 B) Now ENR upgrades

NOTE: Complete Section C of this form for each industrial activity area inspected and included in your SWPPP or as newly identified in B.2 or B.3 below where pollutants may be exposed to stormwater.

2. Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in your SWPPP? YES NO

If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place:

The follow outfalls were eliminated under ENR phase II

A) Pond (BioFilter) near "Old" Maintenance Bldg. Note: Maintenance Building also removed

B) CB-3.1 near influent side of Aeration Basin #7. Note: Aeration (Reactor) expanded, 8th Basin added.

3. Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in your SWPPP? YES NO

If YES, describe these sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place:

NOTE: New Stormwater Plan will be developed at end of EIR phase II contract outlining all new stormwater improvements (new ponds, green roof, etc.)

4. Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hot spots? YES NO NA, no monitoring performed

If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review:

YES - Annual Facility Personnel Meet To Review Storm Water Plan AND Develop written Report with observations and Recommendations.

5. Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring:

A) Road Sediment Due To Construction. NOTE: cloth filter Bags with water caps installed under contract to capture debris/sediments. Bags being maintained by contractor

6. Have you taken or do you plan to take any corrective actions, as specified in Part 3 of the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any corrective actions identified as a result of this annual comprehensive site inspection? YES NO

If YES, how many conditions requiring review for correction action as specified in Parts 3.1 and 3.2 were addressed by these corrective actions?

NOTE: Complete the attached Corrective Action Form (Section D) for each condition identified, including any conditions identified as a result of this comprehensive stormwater inspection.

C. INDUSTRIAL ACTIVITY AREA SPECIFIC FINDINGS

Complete one block for each industrial activity area where pollutants may be exposed to stormwater. Copy this page for additional industrial activity areas.

In reviewing each area, you should consider:

- Industrial materials, residue, or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials from areas of no exposure to exposed areas; and
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas.

INDUSTRIAL ACTIVITY AREA A : Biosolids Handling Building

1. Brief Description:

All stormwater in this Area is capture (catch Basin) & Pump to Primary Clarifier for processing. No Discharge

2. Are any control measures in need of maintenance or repair? YES NO
3. Have any control measures failed and require replacement? YES NO
4. Are any additional/revised control measures necessary in this area? YES NO

NEW BASE coat Black Top installed

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA B : Generators

1. Brief Description:

Four Generators 1) Headworks Building 2) Membrane Building (New) 3) Admin. Building (New) 4) Maintenance Building (New) Note: Generator at Post Chlorination Bldg & end of Chlorination Tank Removed

2. Are any control measures in need of maintenance or repair? YES NO
3. Have any control measures failed and require replacement? YES NO
4. Are any additional/revised c necessary in this area? YES NO

under EWR upgrades.

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA C : Electrical Transformers

Brief Description:

Four Stations: 1) Admin Bldg (old) Transformer will BE DEMOED end of EWR project. 2) Membrane Building (NEW) 3) Rear Admin Bldg (NEW) 4) Maintenance Building (NEW)

2. Are any control measures in need of maintenance or repair? YES NO
3. Have any control measures failed and require replacement? YES NO
4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

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INDUSTRIAL ACTIVITY AREA D: Polymer building

1. Brief Description:

N/A

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

Building Demolished under ENR phase II contract.

INDUSTRIAL ACTIVITY AREA E: Ferrous sulfate Storage Tank (adjacent to primary clarifiers)

1. Brief Description:

NEW TANKS, Meter, Pumps installed

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

enlarge driveway for off loading tankers

INDUSTRIAL ACTIVITY AREA F: Headworks Building

1. Brief Description:

NOTE: Rain Garden Demolished for construction, will be rebuilt when work complete. Presently all stormwater from Headwork Roof Running on ground & NOT into Rain Garden.

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

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INDUSTRIAL ACTIVITY AREA G: Maintenance Building

1. Brief Description:

Two Rain Gardens one on each side of Maintenance Building. NOTE: Two additional (large) Rain Gardens constructed over phase II contract.

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA H: Administration Building

1. Brief Description:

Catch Basins located in front of Blower Building

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA I: Chlorine Storage Area

1. Brief Description:

New Hypo Chlorite Building under construction

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

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INDUSTRIAL ACTIVITY AREA J: Scum Concentrator Building

1. Brief Description: Scum Collection System O/S. Presently Scum/Grease is Be Collected/Stored in Large Dumpster & Hauled off site. This Area is under Construction For NEW Scum/Grease Collection/Processing.

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA K: Gravity Thickeners

1. Brief Description: Area under construction. NEW Thickener ADD (#4). Presently The other 3 Thickener units are being retrofitted with new Debes, walkways etc.

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA L: Sodium Hydroxide Storage Tank (adjacent to Post Aeration Building)

1. Brief Description: Area under construction For NEW ^{Sodium} Hydroxide system to Replace Sulfur Dioxide system.

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

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INDUSTRIAL ACTIVITY AREA M : Clarifiers

1. Brief Description:

3 Primary Basins out of 6 in service

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA N : Aeration Tanks

1. Brief Description:

Area under construction to retrofit Basins

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA O : Septage Receiving

1. Brief Description:

All stormwater collected & processed on site. No Discharge

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

NOTE: Copy this page and attach additional pages as necessary

INDUSTRIAL ACTIVITY AREA P: Grease Receiving Station

1. Brief Description:

N/A Demolished under ENR Phase II

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/ revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA Q: Post Chlorination Cylinder Storage Area

1. Brief Description:

Area under construction for new Hydro Chloride system to replace chlorine

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/ revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA R: Control Chamber (Digester Building)

1. Brief Description:

#2 Digester retrofitted to #4 Thickener #1
Digester 9/5

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/ revised BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

NOTE: Copy this page and attach additional pages as necessary

INDUSTRIAL ACTIVITY AREA S: Grit Receiving Station

1. Brief Description:

N/A Demos under ENR phase II

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revise BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA T: Grease & Scum Receiving Station

1. Brief Description:

N/A Demos

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revise BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA U: Sludge Pump Station

1. Brief Description:

Equipment out of service

- 2. Are any control measures in need of maintenance or repair? YES NO
- 3. Have any control measures failed and require replacement? YES NO
- 4. Are any additional/revise BMPs necessary in this area? YES NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

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D. CORRECTIVE ACTIONS

Complete this page for each specific condition requiring a corrective action or a review determining that no corrective action is needed. Copy this page for additional corrective actions or reviews.

Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions needed to address problems identified in this comprehensive stormwater inspection. Include an update on any outstanding corrective actions that had not been completed at the time of your previous annual report.

1. Corrective Action # 10 of 10 for this reporting period.

2. Is this corrective action:

- An update on a corrective action from a previous annual report; or
- A new corrective action?

3. Identify the condition(s) triggering the need for this review:

- Unauthorized release or discharge
- Numeric effluent limitation exceedance
- Control measures inadequate to meet applicable water quality standards
- Control measures inadequate to meet non-numeric effluent limitations
- Control measures not properly operated or maintained
- Change in facility operations necessitated change in control measures
- Average benchmark value exceedance
- Other (describe): _____

4. Briefly describe the nature of the problem identified:

N/A

5. Date problem identified: / /

6. How problem was identified:

- Comprehensive site inspection
- Quarterly visual assessment
- Routine facility inspection
- Benchmark monitoring
- Notification by EPA or State or local authorities
- Other (describe): _____

7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:

8. Did/will this corrective action require modification of your SWPPP? YES NO

9. Date corrective action initiated: / /

10. Date correction action completed: / / or expected to be completed: / /

11. If corrective action not yet completed, provide the status of corrective action at the time of the comprehensive site inspection and describe any remaining steps (including timeframes associated with each step) necessary to complete corrective action:

Upon completion of ENR phase II upgrade a New Storm water plan will be developed for that

E. ANNUAL REPORT CERTIFICATION

1. Compliance Certification

Do you certify that your annual inspection has met the requirements of Part 4.2 of the permit, and that, based upon the results of this inspection, to the best of your knowledge, you are in compliance with the permit? YES NO

If NO, summarize why you are not in compliance with the permit:

2. Annual Report Certification

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.

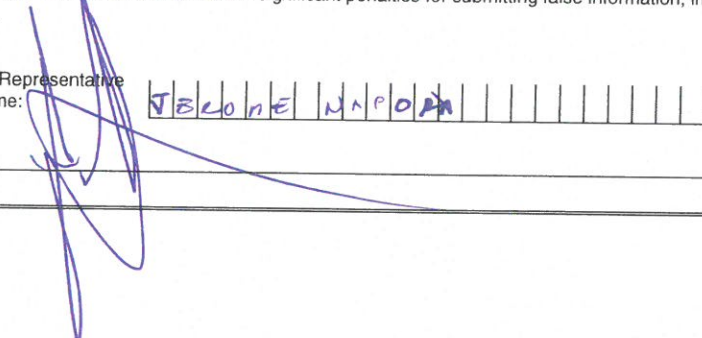
Authorized Representative
Printed Name:

JELONE NAPORA

Title:

TEAM MANAGER

Signature:



Date Signed:

JANUARY 5, 2018