

Beaufort County Stormwater Management Utility Board (SWMU Board) Meeting Minutes

October 10, 2018 at 2:00 p.m. in Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina

Board Members

Present

Don Smith
Marc Feinberg
James Fargher
Patrick Mitchell
Allyn Schneider

Absent

William Bruggeman

Ex-Officio Members

Present

Andy Kinghorn

Absent

Scott Liggett
Van Willis
Kim Jones

Beaufort County Staff

Eric Larson
David Wilhelm
Patricia Wilson
Eric Greenway

Visitors

Dr. Alan Warren, USCB Lab
Alice Howard, County Council
Ellen Comeau, Clemson Extension
Stacey French, SC DHEC
Ken Taylor, SC DHEC
Kevin Smith, Thomas & Hutton
Frank Turanu, Alliance Consulting Engineering

1. Meeting called to order – Don Smith

A. Agenda – Approved with Additions.

Additions to New Business

- E) Brewer Memorial Park Stormwater Demonstration Project Expanded Scope
- F) Extension of the Intergovernmental Agreement for the Stormwater Utility with the City of Beaufort
- G) Evergreen 319 Grant Project Approval, Funding, and Budget Amendment

B. July 11, 2018 Minutes – Approved.

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Special Presentation – DHEC Superfund and RCRA Programs – Ken Taylor & Stacey French – Ken Taylor, the Director Division of Site Assessment, Remediation & Revitalization, with SC DHEC explained that superfund is a federal program that has been around since 1980's; it's a pot of money to be used for sites that were placed on a National Priority List (NPL) by the EPA. It is a program led by EPA with input from the State.

There are three primary sites in the area; Kalama (EPA), Wamchem (EPA), and Lobeco (State) as Independent Nail was delisted in 1995.

Mr. Feinberg asked if sites come on and off the list. Mr. Taylor responded that once they are cleaned up they come off of the list.

The Kalama site is a ground water situation, where they are trying to keep contamination from getting into the limestone aquifer. The idea is to pump it and keep it from getting down deeper using extraction wells.

Mr. Kinghorn asked about keeping it from moving down. Mr. Taylor explained they pump the shallow water to keep it out. It is a long term process. He explained every five years the sites go through a review. He mentioned that there is a responsible party who is paying the bill for the Kalama site clean-up.

In response to a question about alternatives to pumping, Mr. Taylor indicated if it is moving laterally you could create a wall filled with reactive material or there are injections to try to neutralize the chemicals. This site is a little tougher because it was wide range of chemicals.

The five year review for the site will take place in 2018 and he noted that the concentrations have been coming down over the years.

The Wamchem site was a dye factory and has been on the NPL in 1984. Springs Industry is responsible party. They are getting close to being cleaned up; only one chemical is above the level. He explained there is an NPDES discharge that is treated before it goes off site, and it cannot go over a certain concentration.

The Lobeco site is not on NPL list, but has been under DHEC order since the 1980's. The site had several areas of concern, but most have been cleaned up. The new waste water lagoons have been tested and there is not much in them. A wall was created around the contaminated groundwater, but unfortunately behind a part that was moving off site so there are wells in that area. They are in the last phase of getting the ground water set up for remediation. Mr. Taylor explained that IC (Institutional Controls) are in place.

Mr. Smith asked if they see any stormwater concerns. Mr. Taylor mentioned they are mostly groundwater problems and when they have events, they try to tell them to turn off pumps until a storm passes.

Ms. Stacey French, manager of RCRA Resource Conservation and Recovery Act for DHEC, works with the Department of Defense. She expressed the idea is to manage the waste to not have as many Superfund sites. Parris Island Recruit Depot was listed on the NPL in 1994 (causeway landfill) and had endangered species. In addition to be on NPL, the Depot applied for a permit to store hazardous waste. They have a Federal Facilities Agreement with is a party team EPA, DHEC, and Naval Facilities for clean-up. There are 29 sites (petroleum, hazardous waste) designated as needing clean-up. Site 45 was a former dry cleaning facility and the contamination was moving laterally. Soil removal and injections have been done in this area. There is some detection in the discharge area, but they are not consistent. The plan is to repair the storm sewer as there are some cracks.

Marine Corps Air Station (MCAS) is not an NPL site and it doesn't have EPA oversight. It is a RCRA, they applied for a permit as they have container storage. They have to determine how they manage the sites to not become a superfund site. There is no offsite impact. If they find new sites, they have to identify and address. Ms. French noted that MCAS has a great working relationship with DHEC.

Ms. French explained MCAS elected to do an interim measure to work with DHEC and OCRM to fix a stormwater problem, where they installed mats and regraded the area to stabilize the bank erosion.

Mr. Smith asked if they were monitoring the water around any of the sites. Ms. French indicated they do source area testing and move out to surface level if needed.

In conversation about the 3rd Battalion pond, she explained the detection in sediment and surface water by DHEC terms did not meet the requirements to be of concern, but EPA is based on older studies had concerns.

Ms. French shared that in the Laurel Bay Housing area, there are no known offsite impacts. In reference to the map, she explained that the green marked areas are ones DHEC has worked with and no additional action is needed and the blue areas are long term monitoring (LTM) sites, as they were not clean initially. [Presentation attached.](#)

5. Reports – Mr. Eric Larson and Mr. David Wilhelm provided a written report which is included in the posted agenda and can be accessed at:

<https://www.bcgov.net/departments/Administrative/beaufort-county-council/boards-and-commissions/council-appointed/board-list/stormwater-management-utility-board/agendas/2018/101018.pdf>

Mr. Larson provided updates on few items from the August and September reports, as they were incorporated into the October packet.

In reference to the August Utility Update #2, the FAQ for regionalism was included as it answers many questions. This project continues to move forward and the kick off meeting has been held. All of Beaufort and Jasper County are participating with the exception of the Town of Hilton Head Island and Town of Ridgeland.

In reference to the August MS4 Update #10, Mr. Larson shared that Amber Woods is the new inspector and the department [regulatory] is now fully staffed.

In reference to the September Utility Update #3, stormwater is advertising for an Administrative Superintendent. The duties of the current superintendent position will be split into admin and operations. This new position will focus on data management.

In reference to September Utility Update #5, Katie Herrera won a structural BMP while at training and the plan is to install it on the Spanish Moss Trail.

In reference to the September Regional Coordination Update #9, Mr. Larson explained that money was being transferred back to capital funds to pay the Battery Creek 319 bill. Mr. Andy Kinghorn asked about the Gray's concerns and Mr. Larson explained that trash rack needed cleaned, there was some erosion on the bank of the pond and some mowing was needed for the site.

In reference to the September MS4 Update item #10, a resolution in support of efforts by NACO will be going to the Natural Resources Committee.

A. Utility Update – Eric Larson

In reference to item #2, the County has MOA's with everyone except the Town of Bluffton. The Town's Council was supposed to take action last night.

The County is advertising for an Assistant Stormwater Manager to help with the day to day tasks, so Mr. Larson can focus on programmatic plans such the next 5-year plan. Also, the new MS4 permit will be issues this next year.

In reference to #5, Hilton Head's financial info is attached. All others are pending; once they are available they will be shared in a future packet.

B. Monitoring Update – Eric Larson

In reference to item #1A, monitoring of the Walmart site, they have been sampling and the pond is very effective in bacteria removal. As soon as it mixes with wetland water, the numbers jump back up. (See attached)

C. Stormwater Implementation Committee (SWIC) Report – Eric Larson

Please reference the report, no additional updates.

D. Stormwater Related Projects – Eric Larson

Mr. Larson provided an update on Alljoy. The County is looking into grant funding for a project or two in the area; ideas of buy-out program or regional stormwater facility to help mitigate flooding issues. In response to a question, Mr. Larson explained that flooding has historically been an issue (low lying area/ elevation problem), but the frequency seems to be getting worse.

E. Professional Contracts Report – Eric Larson

This item will be discussed under new business.

F. Regional Coordination – Eric Larson

In reference to item #5, Pepper Hall, a meeting was held on Monday and this project is moving forward.

G. Municipal Reports – Eric Larson

In reference to #3 City of Beaufort, the task force meeting has been canceled due to pending weather.

H. Municipal Separate Storm Sewer System (MS4 Update) – Eric Larson

Mr. Larson explained the two new charts included in the packet, one is part of MCM5, an MS4 requirement which shows mapping efforts of the last three months with wet ponds being the biggest BMP. The plan is to go back and inspect BMP conditions in the next program year. Stormwater has purchased five new weather stations and the data is available by internet in real-time (weather underground). The County now has the ability to track rain events.

In reference to item #7, the County received approval for changes to Stormwater management plan regarding construction permitting changes and is effective as of yesterday. The charges were a roll back of some previous rules set in place.

Mr. Larson mentioned there will be an extension of the current MS4 permit, as the new one won't be ready on time. The recommendation was to do two general permits, where there is an additional set of rules for coastal communities.

I. Maintenance Projects Report – David Wilhelm

In reference to the Admin Building project under Stormwater Related Projects, it is a SCDOT system. Mr. Wilhelm explained that pipe joints were separating causing sink holes. A 580 foot section of 30" pipe will be lined by a contracting company from Jacksonville Florida. The work will take about a week. The patch off of Boundary Street is part of the same system and was completed by County crew two weeks ago.

The County will be in the Alljoy area to do some significant improvements, hoping to make the conditions better.

The sweeper truck operator is working night shift Sunday thru Thursday. Facility Maintenance has a sweeper contract that runs out at the end of the year and this position will assume those duties when it ends.

In reference to the Animal Shelter Project, Stormwater improved drainage by grubbing, clearing and reconstructing 1,170 feet of channel and cleaning out 1,030 feet of roadside ditch. This helped dry out the site so the contractor could begin work.

In response to a question about the litter crew, Mr. Wilhelm indicated they are doing well, picking up around 7,000-9,000 pounds of litter a month.

Mr. Wilhelm shared that Thursday, November 1st is the fall clean up and is looking to be a large event with many partners, including Town of Bluffton and City of Beaufort having presence as well.

J. Financial Report

Mr. Larson pointed out the summary of the changes between last year and this year's tax run results that was included in the packet.

6. Unfinished Business – None.

7. New Business

A. Special Presentation – DHEC Superfund and RCRA Programs – Presentation was moved to Item 4.

B. Easement Acquisition Updates–

Trask Parkway Update – Memo and Map included in the packet. A motion was made to proceed with condemnation on the Trask Properties. The motion was approved (5/0).

Oyster Street Update – Memo and Map included in packet. The County is requesting to abandon easement due to a structure on property. The property owner has given another easement on the property for the system. A motion was made to abandon easement on parcel 153A. The motion was approved (5/0).

C. 2019 SWMU Board Meeting Schedule – A motion was made to approve the proposed schedule. The motion was approved (5/0).

D. Brewer Memorial Park Stormwater Demonstration Project Expanded Scope -

The project is near Whitehall Boat Landing and is to modify and improve an existing pond. The County has partnered with Clemson University. Beaufort Open Land Trust owns the park and they plan to do a trail and reflection area in the park. The expanded scope plan incorporates several BMPs into the project such as porous pavement, raingarden, and tree boxes.

The proposed change order is for \$27,800 to design and serve a much larger parcel (expanded scope for the parking and garden areas). A motion was made to approve the additional work at Brewer Memorial park. The motion was approved (5/0).

E. Extension of the Intergovernmental Agreement for the Stormwater Utility with the City of Beaufort – Mr. Larson explained that the County renewed the IGA with the City in

November 2016. This renewal (extension) is requested by the City, as they are proposing to do a bond issue and part of the process for a 25 year bond requires an agreement with funding sources (billing and collections for the life of the bond). The agreement would be extended for an additional 17 years. Mr. Feinberg asked if there is down side. Mr. Larson indicated there may be a few changes may be coming from the bond counsel, but doesn't see anything currently that would be.

A motion was made to approve the recommendation to extend out from 25 years from today without any significant "word-smithing" changing the intent the agreement. The motion was approved (5/0).

F. Evergreen 319 Grant Project Funding and Budget Amendment – Mr. Larson explained the Evergreen Tract is near the Okatie West site. The County applied for grant like the Okatie West pond. This project is smaller in scale and received grant approval. The attachment in the packet shows the mark-ups. It is a \$690,000 project and applied for a grant for 60%. The County received a partial award of \$229,000. The money is already budgeted, but it wasn't programed for FY19. Now that the County has the grant they will start the design and need a budget amendment to move funds to this fiscal year.

In response to Mr. Smith's question about how well the projects are working (monitoring data), Mr. Larson commented that the County started monitoring on the Okatie West project and for the Gray property is looking into what is causing the bacterial levels to drop off.

Mr. Larson shared that Okatie West is serving the entire pink area on the map (Sun City going to the little green stream) and Evergreen will be catching the runoff from HWY170 (northern half). Mr. Larson pointed out there are small sediment ponds that were part of the HWY 170 widening project that have been converted to water quality ponds.

A motion was made to approve the Evergreen project, accept the DHEC grant money and moving it into the 2019 budget. The motion was approved (5/0)

8. Public Comment(s) – None.

9. Next Meeting Agenda – Approved.

10. Meeting Adjourned



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Purpose

- To fulfill the Board's request for an overview of DHEC's Superfund and RCRA Programs and an update on 6 Beaufort County sites – Kalama, Wamchem, Lobeco, Parris Island, Marine Corps Air Station and the Laurel Bay Housing Area.



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Superfund



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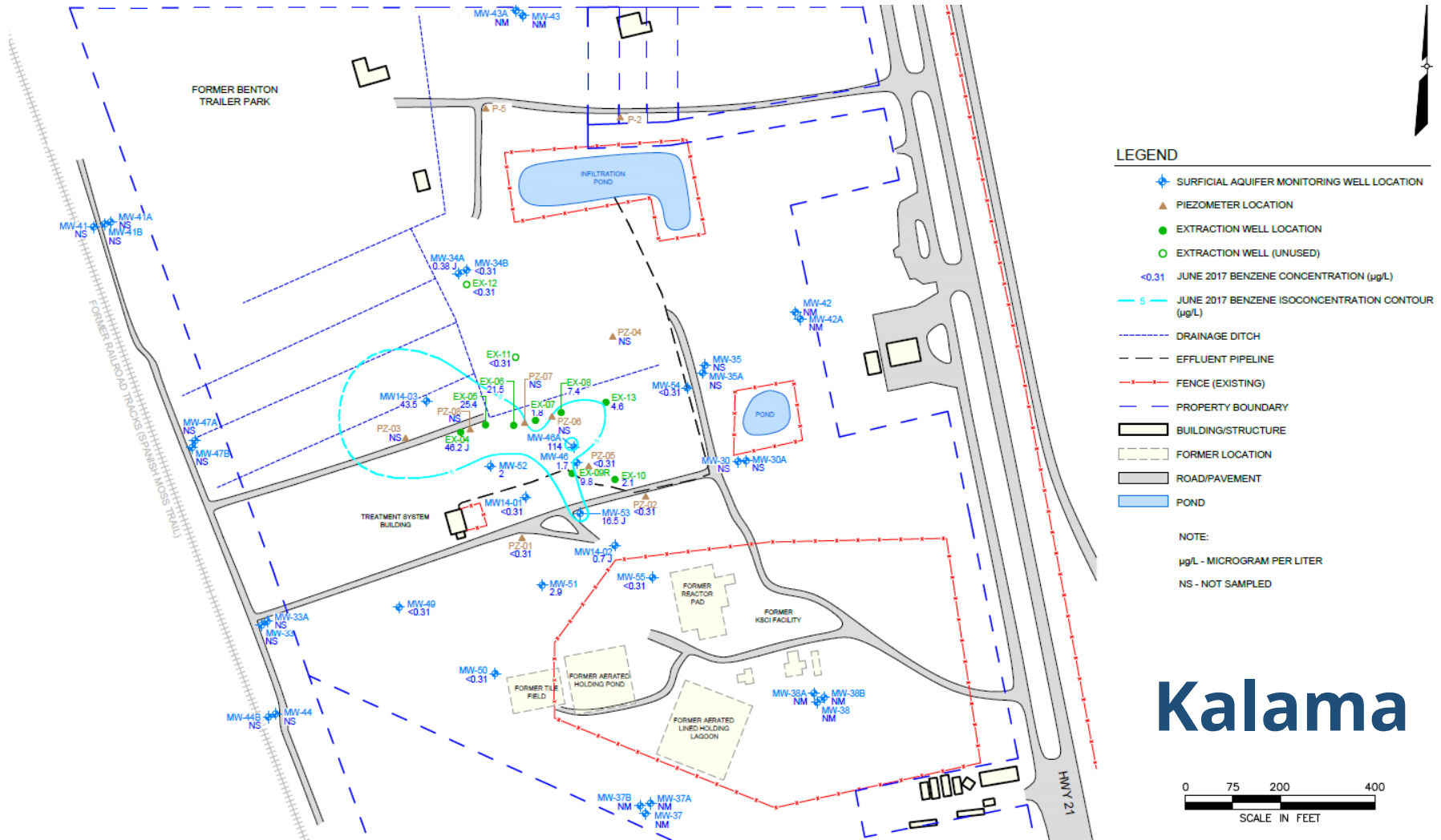
Google Earth

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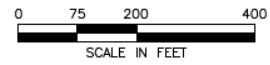
Kalama Specialty Chemicals



- 1973-1983, manufactured wide range of chemicals, including herbicides and plant-growth regulators
- 1979 explosion & fire, releasing chemicals



Kalama



Kalama - Chemicals of Concern



- Groundwater:
 - VOCs (Benzene, 1,2-DCA)
- Soil/Sediment:
 - VOCs (BTEX, 1,2-DCA)
 - SVOCs (Benzoic Acid)
 - Metals (Pb, Cr, Ni, Hg)

Kalama - Remediation



- Listed on NPL 9/21/1994
- 1995, soil/sediment removal w/ off-site disposal
- 1998, groundwater pump & treat system

Kalama – Current Status

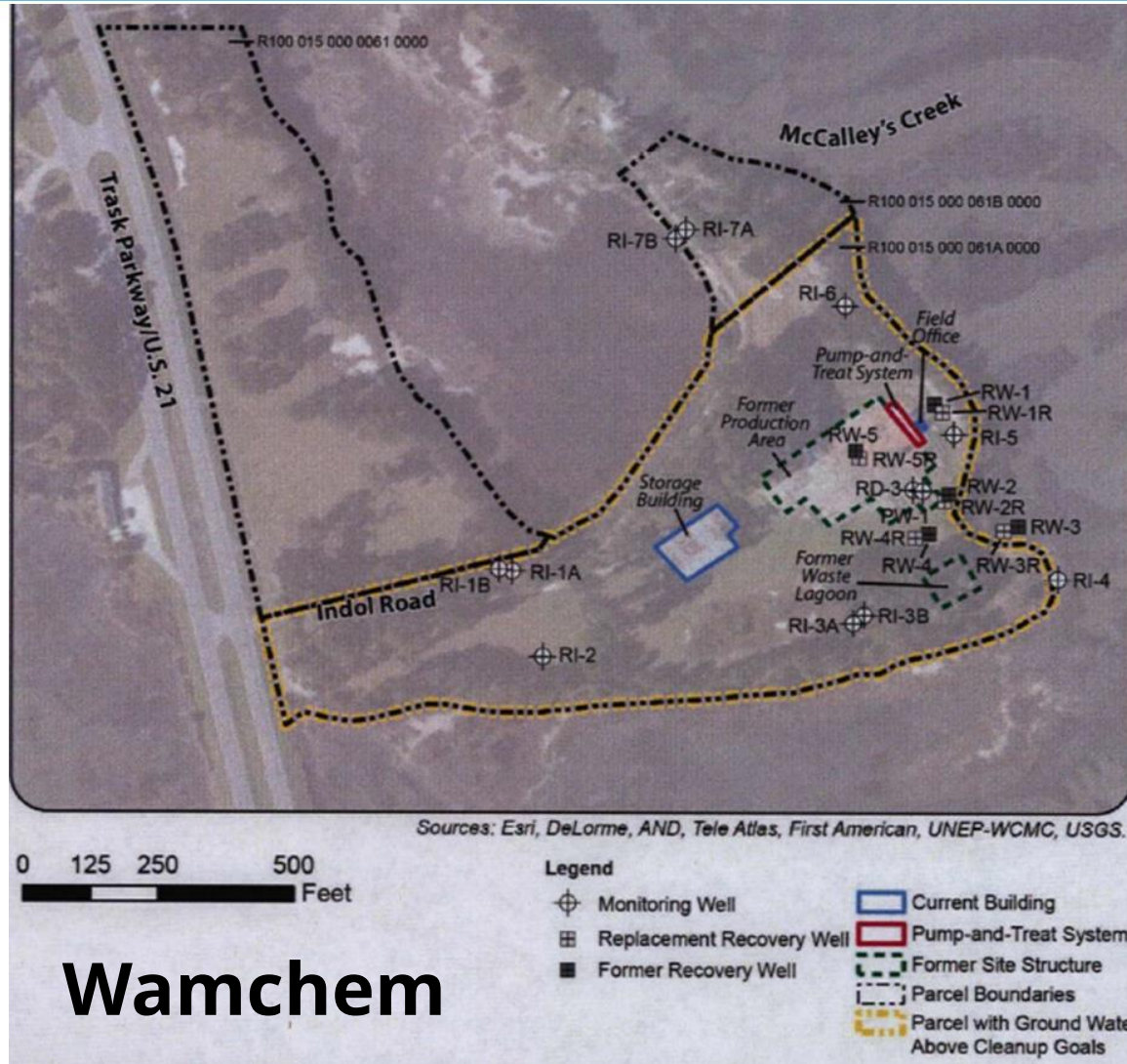


- Semi-annual sampling
- Ongoing delineation
- Evaluation of pulsing strategy
- 2018 Five Year Review

Wamchem



- 1950-1982,
dye
manufacturing



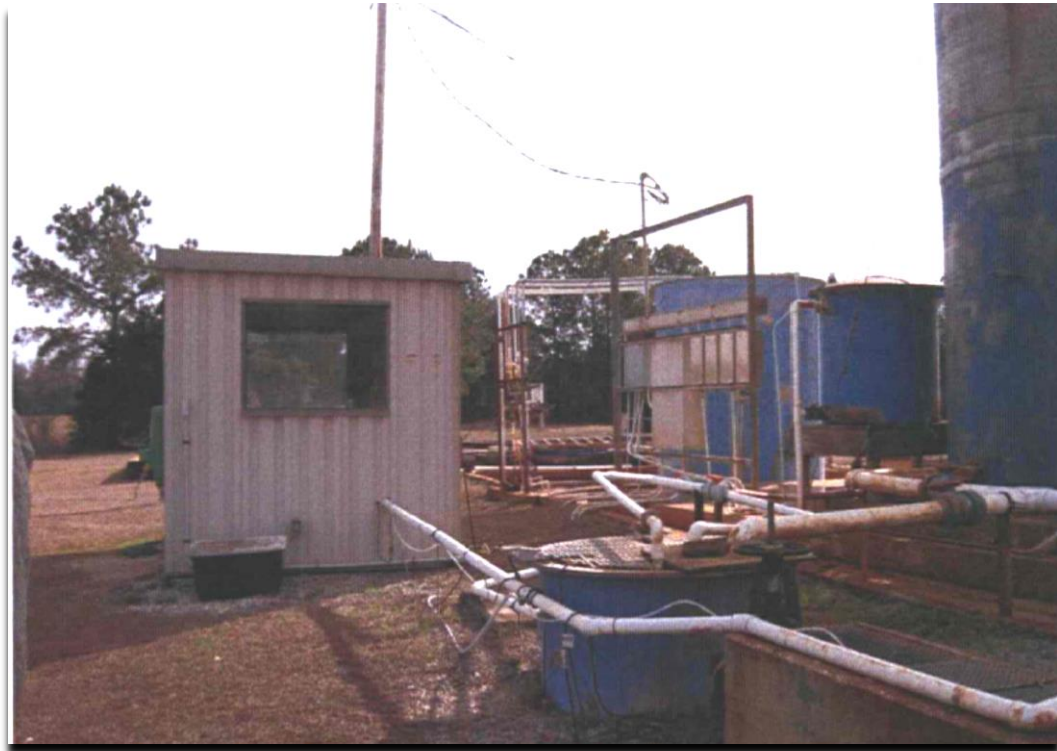
Wamchem

Wamchem – Chemicals of Concern

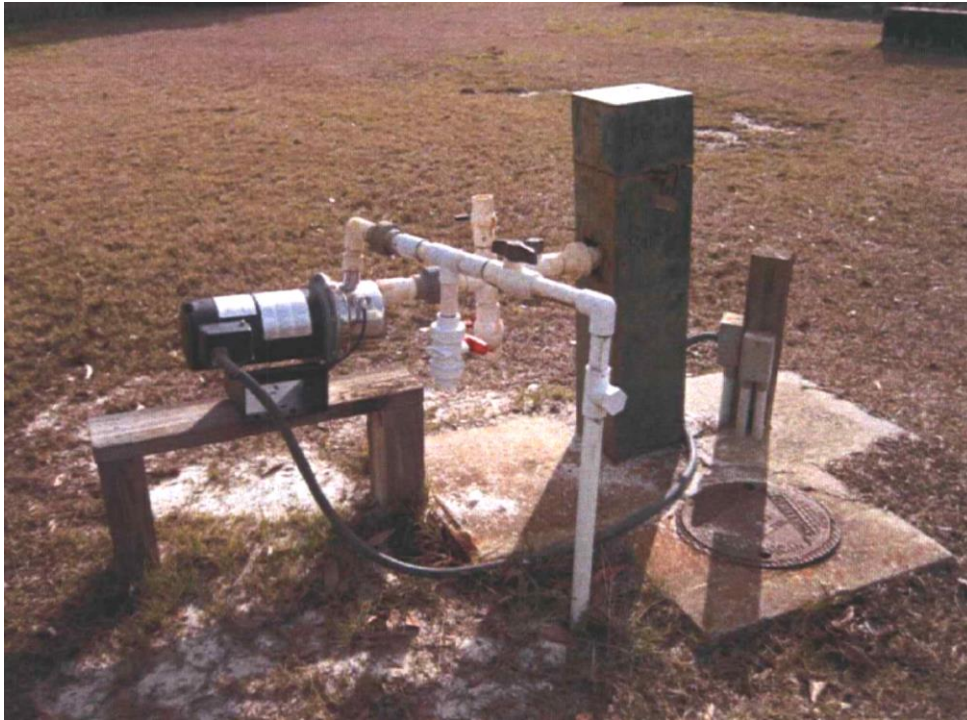
- Groundwater & Soil
 - VOCs (Benzene, 1,2,4-Trichlorobenzene, Acetone, Xylenes, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrotoluene)
 - SVOCs (Naphthalene)
- Only 1,2,4-Trichlorobenzene remains above remediation goal

Wamchem - Remediation

- Listed on NPL 9/21/1984
- 1993, soil removal, treated and backfilled
- 1996, groundwater pump & treat system began operating



Wamchem – Current Status



- Annual GW sampling
- Continue P&T
- Maintain Institutional Controls
- Next Five Year Review is 2019

Lobeco



- 1966 – Agricultural
- 1967-2009 Various Chemical Companies
- Sold to Coastal Demolition 17 April 2009
- 2012 Seized by County for delinquent taxes
- 2014 Sold to Nautica & Co. at auction on behalf of a Mr. Tao
- Site is Not an EPA NPL SF Site. DHEC is Overseeing RP Remedy

Lobeco Map

- Multiple “Operable Units”
- Former Drum Storage & ASTs
- Remediated Burn Site Area
- Remediated Lagoon Area
- Rubble Pile (Asbestos)
- Wastewater Treatment system and discharge line



Lobeco – Chemicals of Concern

- Solvents

Trichloroethylene

Cis-1,2-dichloroethylene

TCE is present at up to 12,000 ug/L in groundwater

- PCBs

Discharged to ground, wastewater lagoon.

1990: Soil removal action

2005 & 2010: Oyster sampling – results comparable to control and public oyster beds

2012: EPA/DHEC study

Lobeco - Remediation

- 1990: PCB removal
29,459 Tons of PCB contaminated soil and debris were removed, disposed as hazardous waste.
 - 8,700 tons from Burn Site
 - 20,409 tons from Lagoon
 - Contaminated debris, spent carbon from water treatment
- Cleanup Goal: < 25ppm

Lobeco – Current Status



- Burn Area: Final GW Remedy Selection Pending to Protect Private Wells
- RLA: GW Mixing Zone
- PCBs: No further remedial action planned
- Asbestos: New owner working with DHEC
- ICs are in place

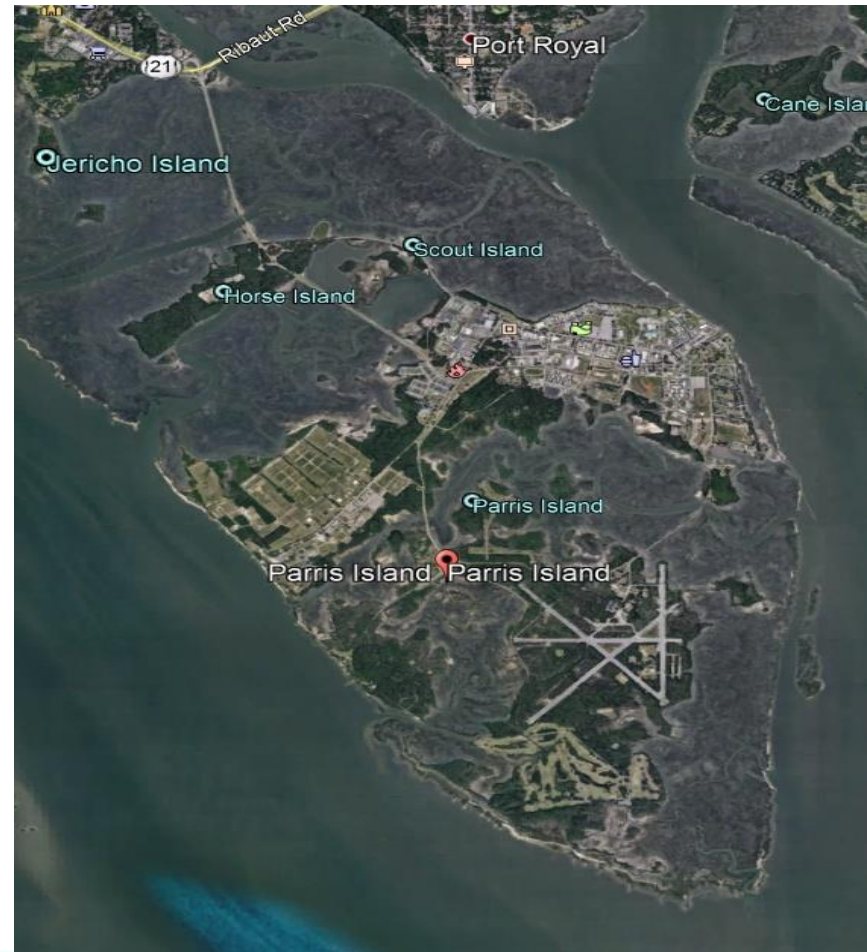


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RCRA Federal Facilities

Marine Corps Recruit Depot– Parris Island

- Regulated under the 2005 Federal Facilities Agreement
- Cleanup team consists of EPA, NAVFAC, Parris Island, and DHEC
- 29 sites identified for investigation



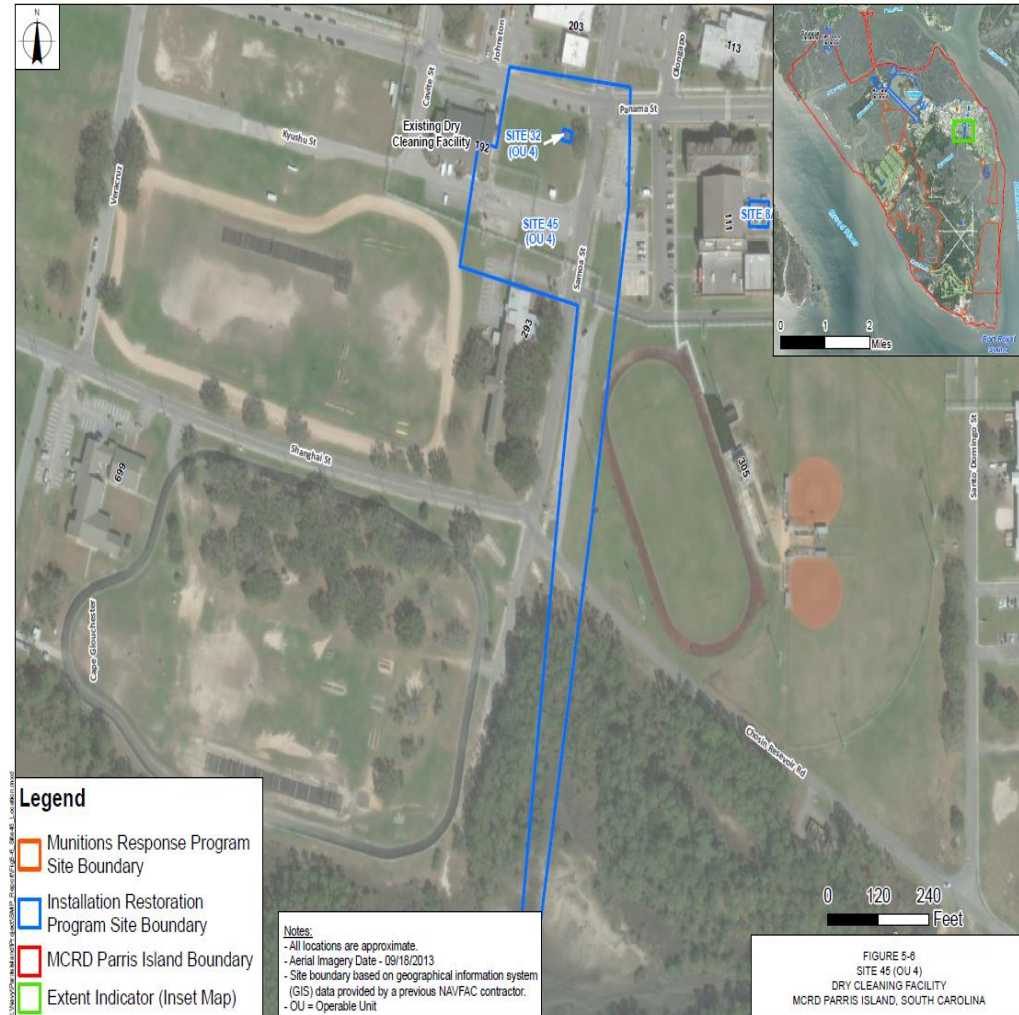
Marine Corps Recruit Depot- Parris Island

Site Location Map



Site 45 Status

- Chlorinated Solvent release at a former drycleaner
 - Contamination is delineated and Treatability Studies completed
- Chemicals of Concern
 - Groundwater - VOCs
 - Soil – VOCs, PAHs, metals

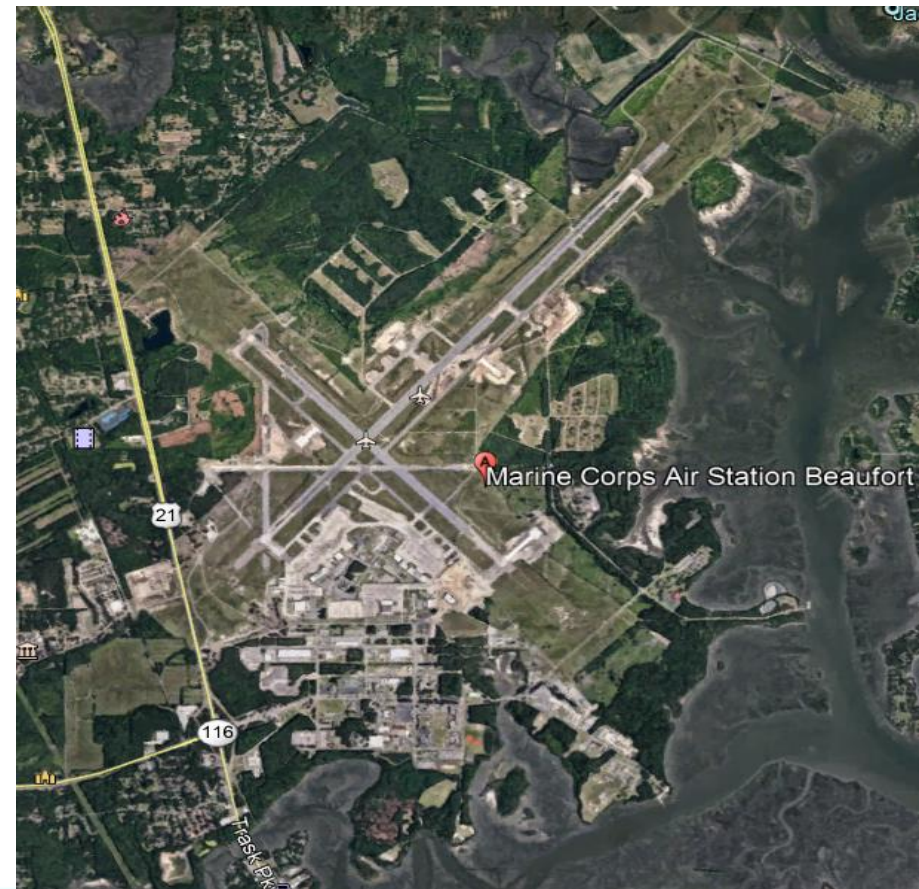


Site 45 Remedy Development

- Documents for proposed Final Remedy are in progress. Remedy will consist of :
 - Source area soil excavation and removal
 - Groundwater treatment
 - ISEB and ISCO
 - Seal storm sewer to prevent groundwater discharge to creek
 - Monitored Natural Attenuation and Land Use Controls

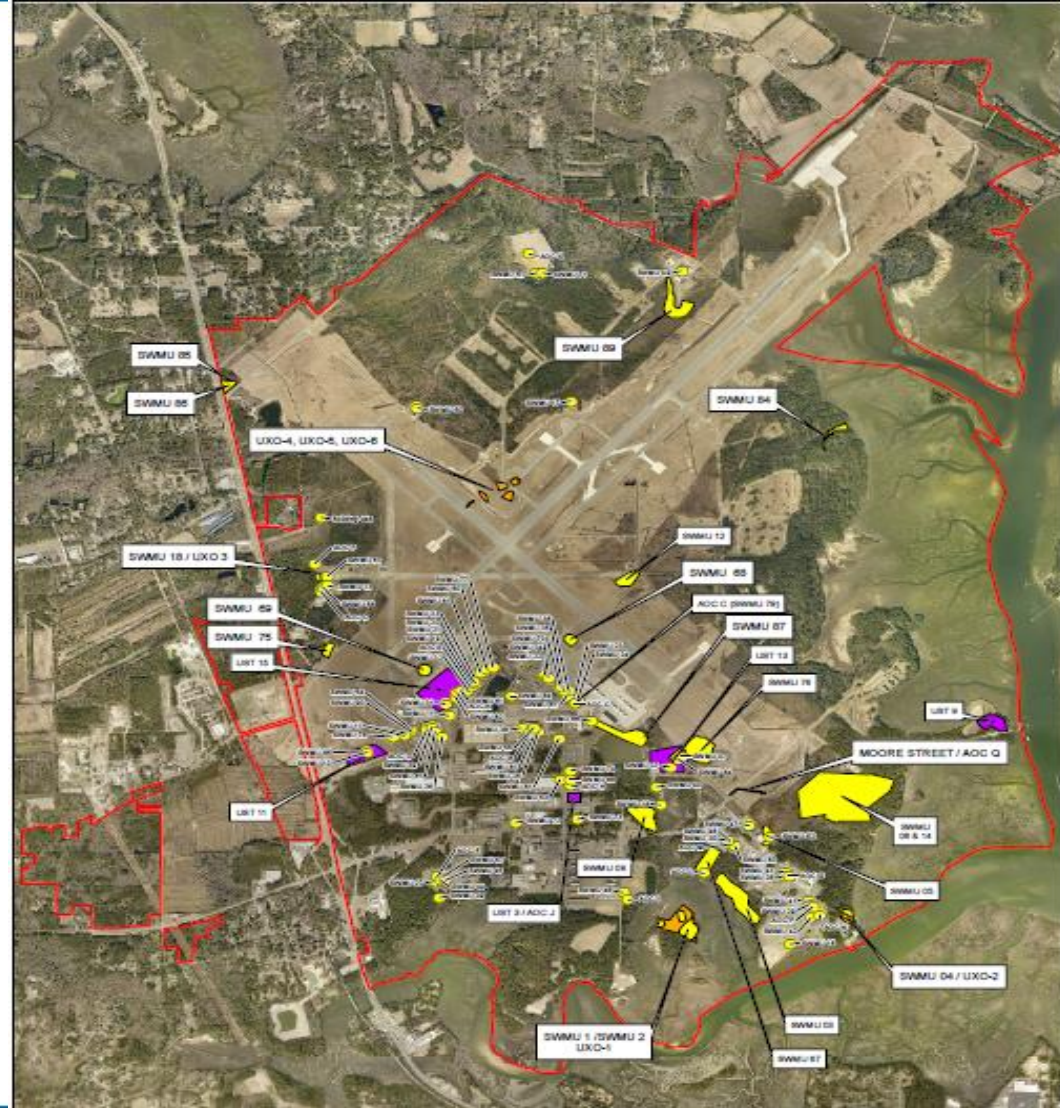
Marine Corps Air Station Beaufort

- Regulated under RCRA Hazardous Waste Management Permit
- Clean up team consists of MCAS Beaufort, NAVFAC, and DHEC
- 106 sites identified for investigation
- No known off-site migration



Marine Corps Air Station Beaufort

Site Location Map



SWMU 3 Former Borrow Pit Landfill

- Extent of landfill delineated (~ 7 acres)
- Groundwater monitoring wells installed
- Chemicals of concern
 - Groundwater – metals
 - Soil – Dioxins, Furans, PCBs, metals



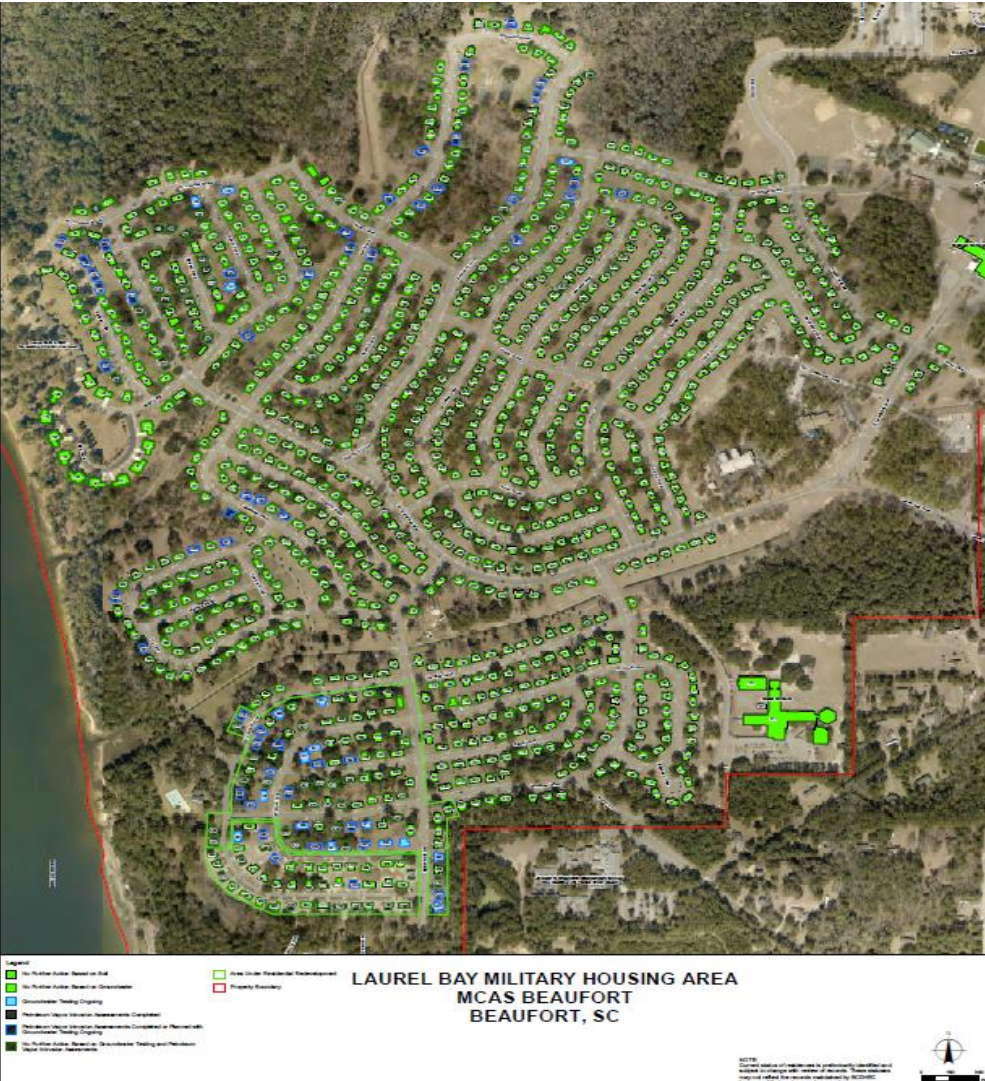
SWMU 3 Bank Erosion Control

- During investigation substantial erosion was identified
- An interim measure was completed for bank stabilization using marine mattresses
- This will be incorporated into a proposed final remedy and documented in a permit modification



Laurel Bay Housing Area

- 3.5 miles west of MCAS Beaufort
- ~ 1300 housing units
- ~ 1100 housing units formerly heated with oil stored in buried oil tanks in the yards of the houses
- All known buried tanks have been removed
- A small percentage of the tanks leaked
- The groundwater is being monitored at known leaks
- No known off-site migration



- The Marines conducted a tank removal and investigation process. DHEC has been providing oversight
 - The map shows the current status
- Further information regarding the status of investigations can be found at:
<https://www.beaufort.marines.mil/Resources/Laurel-Bay-Health-Study/>



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Walmart / Sam's Club Pond at Highways 46 and 278



Fecal Coliform Removal Efficiency of Walmart Detention Pond*

Date	WMP IN	WMP OUT	ABSOLUTE DECREASE	% DECREASE
6/12/2018	184.0	10.0	174.0	94.6
6/26/2018	12098.0	31.5	12066.5	99.7
7/10/2018	12098.0	120.5	11977.5	99.0
7/23/2018	1860.0	94.5	1765.5	94.9
8/7/2018	1093.5	26.0	1067.5	97.6
8/21/2018	19863.0	91.5	19771.5	99.5
9/4/2018	359.0	80.5	278.5	77.6
9/18/2018	12098.0	129.5	11968.5	98.9
10/2/2018	14136.0	172.5	13963.5	98.8

Avg. % Decrease = 95.6

*** Fecal Coliform Concentration in MPN of Colony Forming Units /100 ml**